UNIVERSITY OF FLORIDA

College of Medicine
1992-93 Catalog
The University Record

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We envision the University of Florida College of Medicine to be, and to be recognized as, one of the leading medical schools in the United States. We envision an institution deeply committed to excellence, quality and scholarship in pursuit of its integrated educational, clinical and investigative mission. We envision a caring environment filled with enthusiasm, intellectual ferment, mutual support, and pride in personal, departmental, collegiate and university accomplishments.

University of Florida

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Volume LXXXVII Series 1, No. 3, June 1992

THE UNIVERSITY RECORD (USPS 652-760) published quarterly by the University of Florida, Office of Publications, Gainesville, Florida 32611. Second-class postage paid at Gainesville, Florida 32601.
POSTMASTER: Send address change to the Office of the Registrar, University of Florida, Gainesville, FL 32611.

This publication has been adopted as a rule of the University pursuant to the provisions of Chapter 120 of the Florida Statutes. Addenda to the University Record Series, if any, are available upon request to the Office of the Registrar.

For an application or further information please contact:
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University of Florida College of Medicine
1992-93 Catalog

Aerial view of the UF Health Science Center.

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UNIVERSITY OF FLORIDA

The University of Florida, a residential, land-grant institution, is the oldest and largest of Florida's universities, and is the tenth largest university in America. It aspires to be one of the 10 best public universities in the nation.

One of the 54 institutions selected to membership in the Association of American Universities, the University of Florida has a comprehensive range of teaching and research programs at the undergraduate, professional and graduate levels. Undergraduates can major in any one of 99 baccalaureate degree programs. As man's knowledge expands, so will the University's offerings.

As part of its mission to master old and to create new knowledge and to transmit both, the University emphasizes research by its students and its faculty. Graduate programs are available to students in 152 fields at the master's level, and 89 fields at the doctoral level. This emphasis upon research is reflected in contracts and grants received during 1990-91 totalling $191 million. The presence on a single campus of such a wide variety of disciplines has led to the development of over 100 interdisciplinary centers throughout the University, most of which are research oriented with specific missions. When those missions are accomplished, those centers dissolve and new centers dealing with new knowledge and new missions arise.

The University will continue to expand its interdisciplinary activity in teaching, research and service because some of the world's most critical problems require effort for resolution. The comprehensive scope of its teaching and research programs makes the University of Florida both a statewide and a national resource for service in many different areas. Many of the University's programs extend beyond the state and nation to encompass the world. Important and integral parts of the University are the Health Science Center, the Institute for Food and Agricultural Sciences (IFAS), and the Engineering and Industrial Experiment Station (EIES).

The mission of the Health Science Center is to provide educational opportunity in the undergraduate and graduate health professions for the citizens of Florida, to deliver quality state-of-the art diagnostic and medical services, and to conduct medical research to understand, cure and help prevent disease. Education, research, and medical services will be provided at all locations in accordance with funding plans approved by the Board of Regents. The Health Science Center is composed of a teaching hospital and six colleges: medicine, pharmacy, nursing, health-related professions, and the State's colleges of dentistry and veterinary medicine.

IFAS has a statewide mission for research, extension and teaching programs in food, agriculture and natural resources to help Florida maintain a sustainable agriculture, an industry that will be competitive in world markets and compatible with Florida's urban population and sensitive environment. IFAS has a residential college with 24 departments, 23 research and education centers located throughout the state, and a county extension office in each of Florida's 67 counties.

EIES, the research arm of the College of Engineering - together with the NASA/SUS Southern Technology Applications Center (STAC), and the Statewide Florida Engineering Education Delivery System (FEEDS) - serves the needs of Florida's industries, and state and local agencies. The mission of EIES is to provide high quality fundamental and applied engineering research expertise to help solve important technology related to problems faced by the citizens of Florida.

The University's faculty are chosen for their commitment to good teaching, their ability to conduct high quality research, and their desire to perform service to the state, the nation and the international community. Currently, the University has 55 endowed chairs and plans to have 100 endowed chairs by 1993. Its faculty includes members of the Royal Society of London, the National Academy of Science, the National Academy of Engineering and the Institute of Medicine of the National Academy of Science. The University will continue to add to this list of distinguished faculty including those holding membership in other national academies, both American and international.

Students are drawn to the University of Florida from all parts of the state, nation and world. The undergraduate student body is among the best academically prepared student bodies in public universities in the nation. Currently, the University ranks fifth among state universities in the number of national merit scholars enrolled.

The University of Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the degrees of bachelor, master, specialist and engineer, as well as doctoral and professional degrees.

ACADEMIC CALENDAR 1992-1993

CLASS OF 1996 - FIRST YEAR

Required Orientation Monday,	August 17 through Tuesday, August 18, 1992
Classes Begin	Wednesday, August 19, 1992
Labor Day (Holiday)	Monday, September 7, 1992
Veteran's Day (Holiday)	Wednesday, November 11, 1992
Thanksgiving Vacation	Thursday, November 26, 1992 through Sunday, November 29, 1992
Classes Resume	Monday, November 30, 1992
Classes End	Friday, December 18, 1992
Winter Break	Saturday, December 19, 1992 through Sunday, January 3, 1993
Classes Begin	Monday, January 4, 1993
Martin Luther King, Jr. Day(Holiday)	Monday, January 18, 1993
Spring Break	Saturday, March 27, 1993 through Sunday, April 4, 1993
Classes resume	Monday, March 29, 1993
Health Care Issues Day	Wednesday, April 7, 1993
Memorial Day (Holiday)	Monday, May 31, 1993
Classes End	Friday, June 4, 1993

CLASS OF 1995 - SECOND YEAR

Classes Begin	Monday, August 17, 1992
Labor Day (Holiday)	Monday, September 7, 1992
Veteran's Day (Holiday)	Wednesday, November 11, 1992
Thanksgiving Vacation	Thursday, November 26, 1992 through Sunday, November 29, 1992
Classes Resume	Monday, November 30, 1992
Classes End	Friday, December 18, 1992
Winter Break	Saturday, December 19, 1992 through Sunday, January 3, 1993
Classes Begin	Monday, January 5, 1993
Martin Luther King, Jr. Day (Holiday)	Monday, January 18, 1993
Spring Break	Saturday, March 20, 1993 through Sunday, March 28, 1993

Classes resume	Monday, March 29, 1993
Health Care Issues Day	Wednesday, April 7, 1993
Classes End	Friday, May 14, 1993
USMLE Exam Step I	Tuesday, June 8 through Wednesday, June 9, 1993
Summer Break	Thursday, June 10 through Thursday, June 24, 1993
Introduction to the Clerkships	Friday, June 26 through Saturday June 25
Clinical Clerkships Begin	Sunday, June 27, 1993

CLASS OF 1994 - THIRD YEAR

All Clerkships Begin	Sunday, June 28, 1992
Rotation I Begins	Sunday , June 28, 1992
Independence Day Holiday	Friday, July 3, 1992
Rotation I Ends	Saturday, August 22, 1992
Rotation II Begins	Sunday, August 23, 1992
Labor Day (Holiday)	Monday, September 7, 1992
Fall Break	Saturday, September 19, 6:00 pm through Saturday, September 26, 1992
Rotation Resumes	Sunday, September 27, 1992
Rotation II Ends	Saturday, October 24, 1992
Rotation III Begins	Sunday, October 25, 1992
Veteran's Day (Holiday)	Wednesday, November 11, 1992
Thanksgiving (Vacation)	Wednesday, November 25, 1992 6:00 pm through Sunday, November 29, 1992
Rotation Resumes	Monday, November 30, 1992
Rotation III Ends	Saturday, December 19, 1992, 6:00 pm
Winter Break	through Saturday, January 2, 1993
Rotation IV Begins	Sunday, January 3, 1993
Martin Luther King, Jr. Day (Holiday)	Monday, January 18, 1993
Rotation IV Ends	Thursday, February 25, 1993
Spring Break	Friday, February 26 through Monday, March 1, 1993
Rotation V Begins	Tuesday, March 2, 1993
Health Care Issues Day	Wednesday, April 7, 1993
Rotation V Ends	Saturday, April 24, 1993
Rotation VI Begins	Sunday, April 25, 1993
Memorial Day (Holiday)	Monday, May 31, 1993

Rotation VI Ends	Saturday, June 19, 1993
Summer Break	Sunday, June 20 through Saturday, June 26, 1993
Senior Electives Begin	Sunday, June 27, 1993

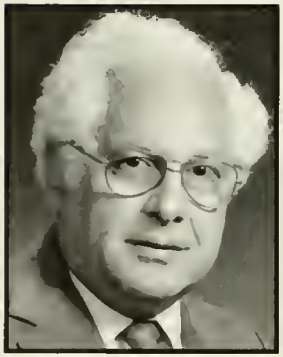
CLASS OF 1993 - FOURTH YEAR

All Senior Electives Begin	Sunday, June 28, 1992
Elective Period One	Sunday, June 28 through Saturday, July 25, 1992
Elective Period Two	Sunday, July 26, through Saturday, August 22, 1992
Period Three-Required Advanced Pharmacology	Sunday, August 23 through Saturday, September 19, 1992
Fall Break	Sunday, September 20, through Saturday, September 26, 1992
USMLE Step II	Thursday, September 24 and Friday, September 25, 1992
Elective Period Four	Sunday, September 27 through Saturday, October 24, 1992
Elective Period Five	Sunday, October 25 through Saturday, November 21, 1992
Elective Period Six	Sunday, November 22 through Saturday, December 19, 1992, 6:00 pm
Winter Break	Sunday, December 20, 1992 through Saturday, January 2, 1993
Elective Period Seven	Sunday, January 3 through Saturday, January 30, 1993
Elective Period Eight	Sunday, January 31, through Saturday, February 27, 1993
Elective Period Nine	Sunday, February 28 through Saturday, March 27, 1993
Elective Period Ten	Sunday, March 28 through Saturday, April 24, 1993
Health Care Issues Day	Wednesday, April 7, 1993
Elective Period Eleven	Sunday, April 25 through Friday, May 21, 1993
Graduation	Saturday, May 22, 1993, 10:00 am University Auditorium

DEAN'S STAFF

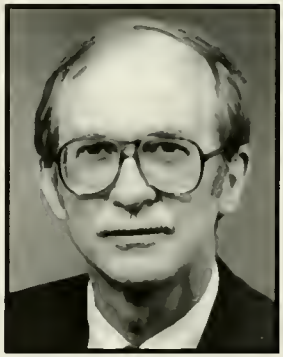
Allen H. Neims, M.D., Ph.D.
Dean, College of Medicine and
Associate Vice President for
Clinical Affairs

Warren E. Ross, M.D.
Executive Associate Dean



Jerome H. Modell, M.D.
Senior Associate Dean for
Clinical Affairs

Regina A. Smith, Ph.D.
Associate Dean for Research



Robert T. Watson, M.D.
Senior Associate Dean for
Educational Affairs

Lamar E. Crevasse, M.D.
Associate Dean for
Continuing Medical
Education

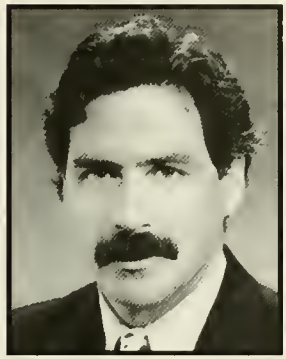
Herschel L. Douglas, M.D.
Associate Dean for
Jacksonville Programs

George E. Gifford, Ph.D.
Associate Dean for
Graduate Education

J. Ocie Harris, M.D.
Associate Dean for
Community Programs

Hugh M. Hill, M.D.
Associate Dean for Student
and Alumni Affairs

Lynn J. Romrell, Ph.D.
Associate Dean for Medical
Education and Director,
Junior Honors Program



Peter F. Gearen, M.D.
Chairman, Medical
Selection Committee

Eloise M. Harman, M.D.
Chairman,
Curriculum Committee

Frank Smith
Associate Dean for
Administrative Affairs

Tom V. Harris, M.B.A.
Assistant Dean for
Administrative Affairs

Dwayne A. Thomas, M.D.
Assistant Dean and
Director, Minority Relations

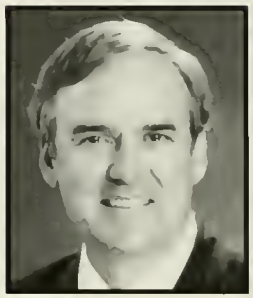
R. M. Whittington, M.D.
Assistant Dean for Veterans
Affairs
Medical Center Relations

DEPARTMENT CHAIRMEN

Michael H. Ross, Ph.D.
Chairman, Anatomy and Cell Biology

Jerome H. Modell, M.D.
Chairman, Anesthesiology

Daniel L. Purich, Ph.D.
Chairman, Biochemistry and Molecular Biology



R. Whit Curry, Jr., M.D.
Chairman, Community Health and Family Medicine

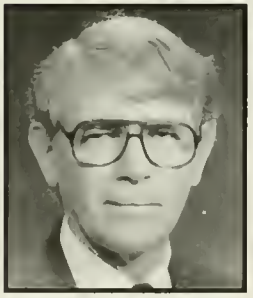
Richard W. Moyer, Ph.D.
Chairman, Immunology and Medical Microbiology

James E. McGuigan, M.D.
Chairman, Medicine

Albert L. Rhoton, M.D.
Chairman, Neurological Surgery

Melvin Greer, M.D.
Chairman, Neurology

William G. Luttge, Ph.D.
Chairman, Neuroscience



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Chairman, Obstetrics & Gynecology

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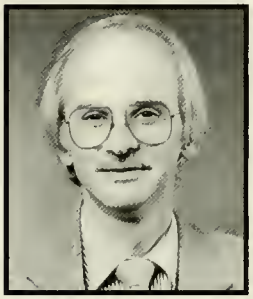
Chairman, Ophthalmology

R. William Petty, M.D.
Chairman, Orthopaedic Surgery

Nicholas J. Cassisi, D.D.S., M.D.
Chairman, Otolaryngology

Noel K. Maclaren, M.D.
Chairman, Pathology and Laboratory Medicine

Douglas Barrett, M.D.
Chairman, Pediatrics



Stephen P. Baker, Ph.D.
Chairman,
Pharmacology
and Therapeutics

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Chairman, Physiology

Dwight L. Evans, M.D.
Chairman, Psychiatry

Rodney R., Million, M.D.
Chairman, Radiation Oncology

Edward V. Staab, M.D.
Chairman, Radiology

Edward M. Copeland, M.D.
Chairman, Surgery

General Information

Medical education is a continuous learning process that begins with the decision to become a physician and ends with retirement from the profession. The formal component of this continuum is divided into three stages. The first is premedical education occurring in an undergraduate university setting. This stage should provide a combination of liberal education with science prerequisites concluding with the awarding of a bachelor's degree.

The next stage is medical undergraduate education, usually requiring four years and leading to the M.D. degree.

The third formal stage is graduate medical education in specialty programs. These residency programs of patient care under supervision, take place predominantly in a hospital environment and generally require three to six years, depending upon the specialty. Residency training prepares the physician for specialty certification and the independent practice of medicine.

Further graduate medical education in a subspecialty can be pursued in fellowship programs.

Licensure to practice medicine is achieved through a three step examination sequence during medical school and residency training. The United States Medical Licensing Examination is administered by the National Board of Medical Examiners.

These formal stages of medical education, lasting from 11 to 14 years, lead to licensure and specialty certification, but thereafter the physician is responsible to maintain, enhance and adjust her or his competence through formal and informal continuing medical education.

It is the responsibility of colleges of medicine to select medical students, provide their education leading to the M.D. degree, prepare them for specialty training in residency programs and ensure that each understands the critical importance of the enduring phase of continuing education throughout their independent medical careers.

The most critical part of this educational continuum is medical school. Only colleges of medicine can grant the M.D. degree. The University of Florida College of Medicine is the cornerstone of the University of Florida Health Science Center which also includes the Colleges of Dentistry, Health Related Professions, Nursing, Pharmacy, and Veterinary Medicine.

The University of Florida College of Medicine has strived for excellence since admitting its first class in September, 1956. It first received full accreditation from the Liaison Committee on Medical Education in 1960, and again in 1963, 1969, 1976 and 1983.

Rapid expansion in education, biomedical research, clinical care and other services have permitted the College to offer a curriculum leading to a Ph.D. degree in each of the basic medical sciences and a combined M.D./Ph.D. program in addition to the M.D. degree.

Graduate medical education is provided predominantly in cooperation with Shands Hospital and the Gainesville Veterans Affairs Medical Center through

residencies and fellowships in programs accredited by the Accreditation Council on Graduate Medical Education. Affiliations with community health care programs provide additional opportunities for the College's educational and clinical care activities.

The University of Florida Health Science Center, including Shands Hospital and the Gainesville Veterans Affairs Medical Center, is located at the southeast corner of the University of Florida campus. The structural unity of the Health Science Center and the geographic location on the university campus promote an interdisciplinary approach to education, research and patient care.

STUDENTS

The College of Medicine recognizes its obligation to graduate, for the State of Florida and society, highly competent and responsible physicians. The realization of this goal is not possible without excellent students. The College strives for a diverse student population without preconceptions about what constitutes an ideal applicant. Equal opportunity and ethnic, racial, religious, gender and cultural diversity are important principles for our students and faculty. The University of Florida agrees with and abides by regulations regarding the recruitment and admission of students with handicaps, as it does regarding recruitment and employment of faculty and staff.

Interest in becoming a physician, in having the opportunity to contribute to caring for the health needs of fellow humans, begins before medical school. The faculty of the College of Medicine nurtures this interest whenever it occurs and encourages those with desire and talent to be confident they can become physicians.

Part of this encouragement is through preprofessional counseling provided cooperatively by the College of Liberal Arts and Sciences and the College of Medicine.

Volunteerism in communities and hospitals also is an important way to nurture interest and learn about the variety of opportunities in health care. Exposure to biomedical research is an additional avenue for exploring opportunities in health care. All of these experiences help prospective medical students decide if they have the necessary desire and dedication to become physician members of the healthcare team.

Admission to the College of Medicine is based on quantitative and qualitative criteria. Quantitative criteria are grade point average and performance on standardized examinations, such as the Medical College Admissions Test. Qualitative criteria include attitudes, values and personality characteristics.

After an applicant's academic potential to succeed in challenging learning situations is determined by quantitative criteria, the admissions committee is charged to concentrate on the applicant's social and personal history to focus on her or his potential as a physician. During the interview process, admission committee members seek indicators of altruism, community service, concern for the broader human condition, and deep desire to prevent illness and care for the sick that might predict a future physician who is competent, compassionate and trustworthy.

Students accepted to the College of Medicine begin a challenging learning experience leading to a potentially exciting and rewarding career in community practice, academic medicine or government service. The knowledge base necessary to be an effective physician requires that each student have the requisite ability, aptitude and premedical preparation.

But more is needed to become a good physician than adequate knowledge. The social contract that exists between patient and physician demands attention to the highest standards of moral and ethical behavior throughout one's medical career.

From the beginning of medical school, our students are placed in an environment intended to help them realize the special joys and unique responsibilities that the profession combines. Early exposure to clinician role models in the academic setting and practicing community is part of a learning experience designed to incorporate them into the family of physicians who are responsible for the health needs of society.

For the four years in medical school, concern and effort from the faculty are directed toward imparting to all students the importance of the art as well as science of medicine—enabling them to find the optimal balance between knowing and caring, and helping them understand their inevitable limitations.

It is the responsibility of the College of Medicine to help all students develop the combination of knowledge and maturity that is sufficient for assuming incremental responsibility.

Upon graduation, every student should be prepared to assume the responsibilities required in a supervised clinical care setting, whatever area of specialized training they might pursue, and to have developed an appreciation of the need for continued self-learning.

It is the philosophy of this College of Medicine that all patients in need of care will be provided that care, even though caring for patients with some illnesses may put the safety of staff and students in jeopardy. Caring for others more than self is part of the tradition of medicine and helps graduates become aware that they have the great privilege of asking fellow humans to allow them to care for their health needs and it is their responsibility to maintain that trust.

FACULTY

The evolution of modern academic health centers has produced many opportunities for students and faculty. The knowledge and skills needed to deliver technologically advanced clinical care and to make scientific discoveries have become highly specialized. This provides the opportunity for students to learn of the most recent advances in a large number of disciplines and to participate in rigorous research.

This necessary degree of specialization can make the provision of a generalist education in basic science and clinical medicine more difficult. It is the responsibility of the College to provide the faculty and environments for learning that ensure its students receive the appropriate generalist education while learning about the latest scientific and clinical advances.

The commitment to education at the College is high. This commitment is a criterion for employment and is a measure of academic success. Efforts are made to encourage and facilitate educational, personal, and social faculty-student interaction. Recognition by students that the faculty are concerned about them as people is essential to a quality learning environment.

RESEARCH

Exploring new ways to understand health and disease through biomedical research is an exciting mission of any academic health center. Research that ranges from structural biology to medical sociology is conducted in the laboratories and offices of the College of Medicine and its affiliated institutions.

The College is especially proud of its research focus at the intersection of basic and clinical science. The College has more than 35 endowed research professorships, numerous federally funded research opportunities for medical students and a long-standing clinical research center.

The future will include even more collaborative research between basic scientists and clinicians, an effort that will bring the unsolved scientific problems discovered at the bedside to the laboratories of skilled investigators. Increased collaboration between the College of Medicine and other Health Center colleges and with University programs in agriculture, education, engineering, nuclear sciences, physics, psychology and others is vital to utilizing available talent and making exciting discoveries.

FACILITIES

Most programs and faculty are housed in the University of Florida Health Science Center. The Health Science Center's facilities include the Chandler A. Stetson Medical Sciences Building, the Communicore (library, teaching laboratories and classrooms), the Academic Research Building, the Colleges of Dentistry, Health Related Professions, Medicine, Nursing, Pharmacy, Veterinary Medicine, Shands Hospital and the Gainesville Veterans Affairs Medical Center.

The 548 bed Shands Hospital has more than 25,000 inpatient admissions recorded each year. The outpatient clinics record more than 200,000 visits per year.

The Veterans Affairs Medical Center, located across the street from the Health Science Center, has a capacity of 475 beds and provides additional clinical and research sources. Both institutions offer ample opportunity for hospital-based bedside and ambulatory teaching.

Formal educational affiliations have been established in Tallahassee, Pensacola, Jacksonville and Orlando which provide additional basic science and clinical science resources.

The Communicore is a facility unique to the College of Medicine. This building houses lecture and seminar rooms, multidisciplinary teaching laboratories, study areas and a center for the development and utilization of audiovisual and automated learning aids.

In addition, the Health Science Center Library has a collection of over 215,000 books and periodicals. Computer-based bibliographic retrieval services, such as MEDLINE, are available to support teaching and research activities. The library participates in a regional network of medical libraries to supplement its information resources.

ACADEMIC INFORMATION

Students entering medical school today will be independent practitioners in the 21st century. It is not possible to visualize clearly the structure of the next century's health care system, but it is certain that it will be far different from today's.

The cost of healthcare will be an increasing focus of concern and significant changes in physician and hospital reimbursement are inevitable. A solution to the paradox of having the best possible care in the world, but inaccessible to millions of our own citizens will be demanded by many and likely legislated by government.

Judicious investment in health maintenance through prevention of illness and injury will be seen as wiser than the present expense of treating sickness. Healthcare will become more a wellness than sickness industry.

With continued aging of our population, caring for the chronically ill and elderly will become a significant component of the physician's time and expertise.

Sophisticated media and a more informed public will continue the demystification of the profession and people will be more involved in decisions about the use of technology in their treatment, and the treatment of family members incapable of making decisions. This involvement is but a step from the willing acceptance of healthcare rationing.

There will be more concern about quality of life and more indignation about impersonal death. Unless physicians are sensitive to the health needs of their community and society, the profession will no longer be held in high esteem and nonphysicians will assume many of the duties and responsibilities now reserved for physicians.

Education of medical students in this country is the exclusive responsibility of medical schools. In discharging this responsibility, medical schools have the obligation to anticipate and introduce change and explore ways to prepare students for these changes. This responsibility to continuously revise the educational process is made difficult because of multiple missions.

The future success of this, and other colleges of medicine, will be the realization of a single mission: provision of healthcare for society through a synergism of education, research and clinical care wherein each component is seen as equally important and cooperatively pursued. Our students, faculty and staff approach this challenge with enthusiasm.

The University of Florida College of Medicine has the responsibility to provide healthcare to the referral community it serves and the obligation to prepare physicians to independently provide compassionate and skillful care in their own community.

This responsibility and obligation provides our mission: to educate students and physicians in the humanistic, scientific and technical principles of medicine; to provide the environment and faculty to make important biomedical discoveries; and to deliver the highest quality healthcare to the patients we serve.

The educational program of the College has three specific objectives. First, to provide a humane environment and a thoughtful faculty to foster and nurture the proper attitudes and behaviors during the professional development of each student. Second, to provide the variety of experiences that will allow each student to choose the field and specialty that will provide them a satisfying career of service. Third, to prepare each

student academically and emotionally for the rigors and responsibilities of residency training and later independent community clinical practice, academic medicine or government service.

An essential prerequisite to being an effective physician is a solid background in the sciences basic to medicine. The relevance of this scientific knowledge to clinical medicine is important for learning, retaining and applying the large amount of available information.

Our curriculum provides significant clinical experience with academic and community physicians in the first year of medical school. The purpose of this early experience is not to teach the knowledge base and technical skills of the physician, but to participate with skilled physicians in communicating with their patients, serving their communities and utilizing a relevant scientific basis in the care of their patients.

Whatever the precise structure of the future healthcare system, it is apparent the College's curriculum should meet current objectives while preparing physicians for society's expectations of them in the 21st century. This society will be older and more racially and culturally diverse. Before today's students finish their professional careers, the number of people over age 65 will have doubled—from about 32 million in the mid 1990s to about 66 million by 2030. There also will have been a large increase in African, Asian and Hispanic-American populations.

These future demographic changes, combined with the current perception that the high cost of healthcare does not meet society's expectations for equal access, healthier lives and rational use of technology, will certainly lead to change.

Some changes are reasonably predictable. First, more emphasis will be placed on preventive medicine and maintaining health-promoting life styles.

Second, everyone in this country will have access to basic healthcare, both prevention and primary care.

Third, there will be rational assessment, cost effective use and involvement of patients in deciding the use of technology.

Fourth, physicians will work more closely with other healthcare providers in managing coordinated care and with their communities to provide this care cost effectively.

Fifth, greater emphasis will be placed on humane care of the chronically ill, ethical counseling, acceptance of inevitable death, and rational use of rehabilitation.

Sixth, while meeting these expectations, physicians will continue to be expected to provide the most sophisticated available diagnostic and therapeutic care when appropriate. The ever expanding knowledge base needed to provide such diagnosis and therapy will require skilled information management.

Flexibility and creativity in the curriculum and programs, and from the faculty and its sponsors, will be needed to meet the challenges and opportunities ahead. The College is excited about these challenges and is confident it can lead the way in providing opportunities for students and faculty.

THE CONTINUUM OF MEDICAL EDUCATION

The curriculum of the College of Medicine has several basic objectives. It is designed to instill in the medical student the attitude of a physician. By presenting the student with a clinical problem and sufficient basic science data to understand the organic malfunction, it is hoped the learning process will assume a meaningful significance.

The curriculum also is designed to acquaint students with the different facets of medicine in such a fashion as to permit each student to make an early choice from the many career offerings in medicine.

The study plan also permits the student to assume the responsibility for developing an educational program relevant to their particular needs—a program which will permit the maximum benefit to be derived from the learning process.

The present medical curriculum is the product of a trend over the last 70 years in which the medical school and its parent university have established close academic ties. This trend has had a great impact on the quality and character of medical education. It has facilitated the emergence of scientific medicine and increased sophistication of patient care, including preventive medicine.

These advances have produced a rising cost of medical education and medical care, as well as a separation of medical schools and their faculties from organized medicine and the practitioner.

As our society approaches an important juncture in the development of health and medical care systems, the conflict between education and practice is becoming the cause of increasing concern for involved parties.

Medical school faculties now are carefully studying the long-range aspects of their educational endeavors, as well as their position as proponents or intermediaries between opposite points of view. As a result of this review process, significant proposals for far-reaching change are being made, which will have a long-lasting impact on medical schools and medical education.

THE ART AND SCIENCE OF MEDICINE

The scientific basis of medicine is universally accepted as a prerequisite for medical practice. Often however, we are confronted with the idea that the practice of medicine is an art rather than a science, and that too much science in medical education renders the future physician insensitive to the human needs of patients.

Frequently medical students state that entrance into medical school really does not bring about the expected change in fulfillment of their motivational desires. Often

they feel removed from the art of medicine to the point in which satisfaction or gratification of emotional needs cannot be achieved.

As a result, a cynical attitude may emerge toward medical and patient problems, with a subsequent loss of motivation toward learning.

The educational experience must help the student achieve a high quality blend of humanism and science, which will enable optimal medical care to be provided to patients. The faculty strives to blend the art and science of medicine into the College of Medicine's programs.

Through careful planning, an effort is made to use the fundamental knowledge of the basic sciences in a meaningful relation to career goals in medicine. Traditionally during the first and second years the emphasis is on the sciences basic to medicine, but clinical medicine will be introduced during the first and second years. Advanced clinical medicine will be the primary focus during the third year. The opportunity to advance in both fields in a correlated fashion will be offered in the elective period of the fourth year.

The introduction of clinical medicine in the first and second years, and the opportunity to select basic science courses during the elective year, are of special significance for modern medicine. There is widespread recognition that delay between scientific discovery and its clinical application is too long and must be shortened. It is expected that graduates of the present program will have less difficulty in retaining a true feeling for a close relationship between basic medical science and its clinical application.

FLEXIBILITY OF ADMISSIONS PROGRAMS

Students may enter the University of Florida College of Medicine through three admissions routes: the regular or traditional admissions program, The Junior Honors Medical Program, or the Program in Medical Sciences.

Junior Honors Medical Program

The Junior Honors Medical Program is a combined (seven year) B.S./M.D. program offered by the University of Florida. This is a program for undergraduate students who have chosen a career in the medical profession and who have demonstrated superior scholastic ability and personal development during their first two academic years.

Application to participate in this unique and challenging program is made during the student's second year of college (sophomore). Students are notified of their acceptance at the end of their second year. Selection into the program secures admission into the College of Medicine at the University of Florida, contingent upon satisfactory completion of the Junior Honors Medical Program.

Each student's progress will be monitored throughout the Junior Honors Medical Program and will be reviewed at the end of the Junior Honors year to determine whether the student has complied with the prerequisites and maintained the high standards expected of a student participating in this accelerated honors program. A satisfactory score on the Medical College Admission Test (MCAT) is required prior to entrance into the College of Medicine.

Students are eligible to apply to the Junior Honors Medical Program if they have: completed at least eight (8) semester hours, including laboratories of biology, general (inorganic) chemistry and organic chemistry; completed two semesters of calculus; completed the

University of Florida's general education requirements of English, social sciences and humanities, either via course work or placement credit; and have a minimum of a 3.5 or higher cumulative grade point average. Students who also have completed their foreign language and/or physics requirements during their first two years of college are in a favored position with respect to application to the Junior Honors Program.

Although most applications are received from University of Florida students, applications are accepted from students from other colleges. Non-Florida residents also are eligible to apply. The program is limited to 12 students per year.

Year 1	Year 2
College of Liberal Arts & Sciences	College of Liberal Arts & Sciences

Year 3	Year 4
Seminar	College of Liberal Arts & Sciences
College of Liberal Arts & Sciences	College of Medicine

Year 5	Year 6
College of Medicine	College of Medicine

Year 7
College of Medicine

During the Junior Honors year (third year), students participate in required seminars. The seminars provide extensive faculty contact and a solid background in biochemistry and other areas of preclinical science. The emphasis is placed on student participation in a relatively non-structured and informal format.

Past Junior Honor participants have found this to be an educational experience of great value in the development of a critical and inquiring approach to learning. In addition to these seminars, students continue to register for course work within the College of Liberal Arts and Sciences. Many students in the program also participate in research projects.

The fourth-year students who have successfully completed the Junior Honors year merge into the standard first-year medical program. Since the College of Liberal Arts and Sciences grants credit for the third-year seminars as well as portions of the first-year medical programs, participants are eligible to receive a Bachelor of Science degree at the end of the first year of medical school.

Additional information about the Junior Honors Medical Program and the application procedures may be obtained by writing the Director, Junior Honors Program, College of Medicine, University of Florida, Box 100213, Health Science Center, Gainesville, Florida 32610.

Program in Medical Sciences (PIMS)

Since 1971, Florida State University has participated in an inter-university program with the University of Florida College of Medicine. The first year of basic medical science courses is spent at FSU and the remaining three years of medical education, leading to the M.D. degree, are completed at the University of Florida College of Medicine in Gainesville. The students selected for PIMS begin their first year of

medical education in May, and the curriculum includes clinical preceptorships with local primary care physicians. The program is designed to attract students with a special interest in primary health care, particularly those who might desire to practice in medically underserved Florida communities.

Acceptance to the PIMS is primarily for full-time undergraduate students at FSU, Florida A&M and the University of West Florida. The Admissions Committees of the PIMS and the University of Florida College of Medicine work together to provide additional highly qualified applicants to the University of Florida, who have an interest in primary care, to the PIMS regardless of their undergraduate college. After satisfactory completion of the PIMS curriculum, an evaluation committee reviews and recommends to the dean of the College of Medicine students eligible for transfer to the second year of medical school at the University of Florida College of Medicine.

Detailed information may be obtained by calling (904) 644-1855 or by writing to the Program in Medical Sciences, Florida State University, Tallahassee, FL 32306.

UNIVERSITY OF FLORIDA HEALTH SCIENCE CENTER JACKSONVILLE (UFHSC-J)

Several hospitals in nearby Jacksonville form the University of Florida Health Science Center Jacksonville (UFHSC-J), originally named the Jacksonville Health Education Programs, Inc. (JHEP), with the goal of improving medical education in the community.

In 1969, by action of the Board of Regents, UFHSC-J became a division of the J. Hillis Miller Health Science Center in Gainesville. One hundred and fifty six full-time faculty of the University of Florida College of Medicine are located in Jacksonville.

In 1988, University Medical Center was designated by the Board of Regents as the urban campus of the Health Science Center.

There are elective rotations and required clerkships in a variety of clinical areas available in Jacksonville. These rotations provide the opportunity to observe patients in a community hospital setting and to become acquainted with the many problems of health care delivery in an urban area.

In addition to supervision by full-time faculty, the student may have the opportunity to work with community based practitioners.

Fifteen accredited residency programs are offered in Jacksonville. Residents participate in the teaching of students. UFHSC-J conducts a number of programs for continuing education for practicing physicians to which students are welcome.

A nationally patterned medical library system supports the teaching and research activities with extensive periodical holdings, bibliographic services and audiovisual collections.

The pediatric programs of the University of Florida are enriched by their affiliation with the Nemours Children's Medical Center. Currently an outpatient unit, this newly emerging resource for North Florida will soon offer inpatient services at a state-of-the-art children's hospital as well. Many of the staff of the Nemours Children's Medical Center are University of Florida faculty and there are joint efforts in research, education and patient care.

COMMUNITY MEDICINE

The College of Medicine, primarily through the departments of Community Health and Family Medicine, Internal Medicine, Pediatrics, and Obstetrics/Gynecology, has had community-based programs for more than 20 years. The rural component of these educational experiences are well-recognized for their innovative contributions to patient care and medical education.

In response to community needs, as well as the need for changes in medical education mandated by changes in the teaching environment of teaching hospitals, the College of Medicine has established an Area Health Education Centers (AHEC) Program for the purpose of planning, developing and implementing more extensive community-based educational activities.

Through this program, students in each of the four years of medical school will have the opportunity to participate in clinical training activities in clinics and private physicians' offices throughout north Florida.

The delivery of primary health care is the major focus of these activities and students have an opportunity to become familiar with common medical problems which are seldom seen in the hospital setting. Working with community physicians provides the student with valuable role models for the practice of medicine.

The AHEC Program further links the academic health center with communities by encouraging faculty members of the College of Medicine to participate in community-based education and thereby brings much needed skills to underserved communities.

A basic premise of the community health programs of the College of Medicine is that they will direct the talents of faculty towards problems of health care delivery and engage the interest and enthusiasm of the medical students toward their future resolution.

ADMISSION INFORMATION

The Applicant Pool

Students applying for admission to the University of Florida College of Medicine should plan to complete the requirements for a bachelor's degree at an accredited university or college by the time of matriculation. In exceptional instances, students upon whom the degree has not been conferred may be admitted.

Applicants will be carefully appraised on the basis of personal attributes, academic record, evaluation of achievements, references, performance on the Medical College Admissions Test (MCAT) and personal interviews if granted by the selection committee.

Applicants currently pursuing graduate level work toward a Ph.D. degree or other professional degrees are obligated to complete all degree requirements prior to application to the College of Medicine for study toward the M.D. degree.

The College of Medicine does not discriminate on the basis of race, sex, creed or national origin. Although Florida residents are given preference in admission, the College of Medicine does consider a limited number of nonresident applicants each year. Nonresident applicants must demonstrate superior qualifications. The College of Medicine welcomes applications from minority students regardless of state residence. Only United States citizens and permanent resident aliens will be considered.

Undergraduate Education

Basic Science Requirements: The minimum science admissions requirements include basic introductory courses and laboratories in the following subjects:

- **Biology**-8 semester hours (12 quarter hours)
- **General (Inorganic) Chemistry**-8 semester hours (12 quarter hours)
- **Organic Chemistry**-8 semester hours (12 quarter hours)
- **Physics**-8 semesters hours (12 quarter hours)

An undergraduate general biochemistry course is strongly recommended. Students with one or more semesters of undergraduate biochemistry find Biochemistry and Molecular Biology of Disease (BMS 5204) more interesting and rewarding. For students who desire additional background in science, courses in genetics, microbiology and physiology might be considered. It is not necessary to choose one of the sciences as a college major.

No specific requirement is set in the area of mathematics since, at most colleges, some mathematics is prerequisite to physics and chemistry. Some college work in calculus is strongly recommended. Familiarity with the principles of statistics and their application to the analysis of data is an important asset for any medical student. A knowledge of computers and computer programming is valuable in medical education, but is not required.

Consideration should be given by the student to participation in honors courses, independent study and scientific research. These activities present opportunities for an unstructured learning experience.

Electives: The remainder of the college work should be distributed throughout the humanities, social and behavioral sciences. The student should select subjects which tend to broaden the educational experience.

Extracurricular Activities: Extracurricular activities and employment both during the academic year and the summers are important contributions to an individual's development. Experience in medical and paramedical areas often contributes toward an understanding of health care delivery problems and helps to solidify the basis of the student's motivation toward a career in medicine.

Medical College AdmissionTest

Every applicant must take the Medical College Admission Test (MCAT) at a time that enables scores to be received by the Admissions Office prior to the application deadline. The test is given twice yearly in many colleges and universities. For further information about the test write: MCAT Registration, American College Testing Program, P.O. Box 414, Iowa City, Iowa 52243.

Application and Acceptance Procedures

Admission to the College of Medicine is highly competitive. Careful appraisal of each applicant is based on information gained from academic records, scores on the MCAT, recommendations by premedical advisors and teachers, and personal interviews. The College of Medicine endeavors to select those students who appear to be the most qualified for a career in medicine.

1) The College of Medicine is a participating institution in the American Medical College Application Service (AMCAS). The AMCAS application form may be obtained after June 1 from the University of Florida's Preprofessional Office, Room 380 Little Hall, or the College of Medicine, Student Admissions Office, Box 100216, JHMHSC, University of Florida, Gainesville, Florida 32610.

2) It is highly recommended that the minimum science admissions requirements be completed prior to making application.

3) After careful screening of the preliminary AMCAS applications by the Medical Selection Committee, selected applicants will be sent a formal University of Florida application requesting additional information. The completed form should be returned directly to the University of Florida College of Medicine Admissions Office and arrangements made for submission of a preprofessional committee evaluation or letters of recommendation. This second phase requires an application fee of $15 from all students not previously enrolled in the University of Florida. This fee is not refundable. All materials should be submitted as early as possible, but no later than December 1 of each year.

4) Following committee review of all the application materials, interviews with members of the Medical Selection Committee will be arranged for competitive applicants. These interviews are usually held on Fridays at the University of Florida College of Medicine campus in Gainesville.

5) An applicant has two weeks to reply to an offer of admission to the College of Medicine by filing a written statement of intent. If the applicant is later accepted by another school which he or she prefers, the applicant is obligated to notify the College of Medicine in writing, as soon as possible, of a decision to withdraw.

6) No deposit is required from accepted applicants.

The above procedures follow the guidelines of the Association of American Medical Colleges.

Admission to the College of Medicine at an Advanced Standing Status

A person may seek transfer to the College of Medicine from a Liaison Committee on Medical Education (LCME) accredited United States or Canadian medical school. Individuals who already have received a degree from a college of medicine will not be admitted to the M.D. curriculum at advanced standing status. A person may be admitted to the College of Medicine at an advanced standing status within the context of the following guidelines:

1) A vacancy exists for the admission of a person to advanced standing status in the appropriate class.

2) An applicant must wish to transfer in order to maintain a marriage in this locale.

3) Previous professional or graduate education is adjudged adequate in quantity, quality, and time frame to have been competitive for admission as a first-year student at this college and to permit entry into the curriculum at a level beyond the first year.

An applicant who is, for any reason, on probation or not in good academic standing at the school from which transfer is sought will not be recommended for transfer to this college.

4) There is no history of attitudinal, behavioral or emotional problems.

5) Applicants currently pursuing graduate level work toward a Ph.D. degree or other professional degrees are required to complete all degree requirements prior to application for admission to the College of Medicine for study toward the M.D. degree.

6) Only under extraordinary circumstances will an applicant who was previously not accepted by the Admissions Committee be considered for transfer at Advanced Standing status. Any such request will be considered by the Chairperson of the Admissions Committee at the time the student was not accepted and the Associate Dean for Student Admissions and Activities in consultation with the Senior Associate Dean for Educational Affairs.

Initial consideration of an applicant for advanced standing will be undertaken only when the applicant

furnishes the following information upon request:

1) A signed narrative written by the applicant expressing the circumstances which prompted the request to transfer at an advanced standing status.

2) A letter of recommendation from the dean of the professional or graduate school in which the applicant either was enrolled or is presently enrolled. This letter must also state that the applicant is free of attitudinal, behavioral, or emotional problems.

3) Official transcripts of all post-high school academic course work.

4) Medical College Admission Test official scores.

5) A properly executed information form furnished by the College of Medicine Office of Admissions.

6) United States citizenship or permanent resident alien certification.

An applicant judged to be qualified on the basis of the furnished information may be extended an interview.

Special programs of study leading to graduate degrees in the basic medical sciences and admission requirements for these programs are outlined on page 46 of this catalog.

Professional Education Leading to the M.D. Degree

Once a decision has been reached by both the medical school and the applicant, the student will pursue his or her educational endeavors from the vantage of a physician striving to achieve well-rounded capacities as a physician-humanist and scientist in his or her profession and community.

The four years of medical education are divided into three blocks of time, which are identified as Preclinical Coursework (two years), Clinical Clerkships (one year), and Postclerkship Electives and Required Courses (one year). During the preclinical period, students are provided a core of basic science and general clinical information. The required clinical clerkship rotations provide the students with more specific clinical information and experiences in eight general areas of medicine - anesthesiology, community health and family medicine, medicine, neurology, obstetrics and gynecology, pediatrics, psychiatry and surgery. The fourth year includes four weeks of required advanced pharmacology, four weeks required advanced medicine clerkship and four week selectives in surgery and ambulatory care. The remainder of the fourth year is devoted to elective course work.

The provisions of this catalog are not to be construed as an irrevocable contract between the student and the College of Medicine. The curriculum is constantly undergoing evaluation and refinement. Changes may occur from year to year in order to improve the educational program of the undergraduate student of medicine.

The college reserves the right to effect policy and regulatory changes at any time.

Preclinical (Years One and Two)

The preclinical course work is designed to provide students with essential basic science and general clinical information necessary for their clinical training. Teaching teams from both basic and clinical science departments will participate.

Students may elect the option of taking the preclinical basic science courses over a three-year period of time. This option provides an opportunity for the M.D./Ph.D. candidates and other students to begin research activities earlier and in more depth. It also provides the opportunity for students to pursue course work outside the traditional medical school curriculum.

Additionally this less intense three-year track may be advantageous to students with less intensive science backgrounds who would benefit from more moderately paced course work.

Contact hours per week for the standard two-year curriculum range from 20-25. In the three-year track, contact hours would range from 8-25 with an average of about 17 contact hours per week.

A student's request to participate in the three-year track must receive prior review and approval by the associate dean for education and the chairman of the academic status committee.

During the first academic year, a student who is in good academic standing can choose to move into the three-year program. To take advantage of the opportunities that the three-year option offers, the decision should be made prior to beginning the first year or prior to the first day of the second semester. A student who fails any course work, or who meets the standards for dismissal and is given the option of repeating an academic year in its entirety is not eligible to elect the three-year option.

The course schedule under the standard two-year curriculum proceeds as follows. Complete course descriptions begin on page 60.

FIRST YEAR

Anatomy by Diagnostic Imaging (BMS 5190)

Biochemistry and Molecular Biology of Disease (BMS 5204)

Cell and Tissue Biology (BMS 5110)

Community Physician Preceptorship (BMS 5173)

Basic Clinical Skills (BCC 5015)

Introduction to Psychiatry and Human Behavior (BMS 5151)

Medical Aspects of Human Genetics (BMS 5202)

Medical Human Anatomy (BMS 5100C)

Medical Neuroscience (BMS 5020)

Principles of Physiology (BMS 5500)

SECOND YEAR

Clinical Diagnosis (Introduction to Clinical Medicine) (BMS 5831)

Epidemiology and Public Health (BMS 5823)

General Pathology (BMS 5608)

Introduction to Clinical Radiology (BMS 5191)

Medical Microbiology and Infectious Disease (BMS 5300)

Oncology (BMS 5630)

Pharmacology (BMS 5404)

Physical Diagnosis (BMS 5830)

Social and Ethical Issues in Medicine (BMS 5822)

Systemic Pathology and Laboratory Medicine (BMS 5600)

THIRD YEAR

The third year is devoted to clinical clerkships, in which groups of students rotate among the major clinical services experiencing direct patient contact. The required clinical clerkships include: medicine, surgery, pediatrics, community health and family medicine, psychiatry, obstetrics and gynecology, neurology and anesthesiology. Students will spend 5-9 weeks participating in clerkships at UFHSC-Jacksonville. Housing will be provided during this period of time.

During these clerkships, the student becomes an integral member of the medical team and has direct responsibility for his/her assigned patients during rotation.

Students are allowed to displace one clerkship rotation into the fourth year and take two elective units in place of the clerkship, in order to provide some flexibility in choice.

To ensure that each clerkship has a relatively constant number of students, no more than three students can displace any one clerkship at a given time.

Delaying a clerkship requires approval of the course director, the student's advisor, the course director for the chosen elective, the associate dean for student affairs and the associate dean for education.

Each clinical service conducts a variety of seminars and conferences. These are considered to be part of the clerkship and attendance is expected.

FOURTH YEAR

The fourth year occupies the last 11 months of the curriculum and consists of elective experiences, four weeks required advanced pharmacology, four weeks required advanced medicine clerkship, and four week selectives in surgery and ambulatory care.

Students are permitted considerable freedom in designing their program. For students who have already chosen a specialty, fourth year programs may be designed to provide early experiences related to their career choice.

For students who have not yet chosen a specialty, the curriculum may be designed to permit an exploration of their interests in several different specialties or to provide a very broad clinical experience that would be useful in many different specialties.
In addition, the fourth year elective program may help students with known weaknesses in clinical or basic science areas to strengthen their knowledge base prior to housestaff training.

All elective choices must be made carefully in conjunction with the student's faculty advisor.

Clinical electives are available in all of the major disciplines of medicine. In the clinical electives, students may work as advanced clerks, assuming greater responsibilities than they had in the third year.

Elective courses in the basic sciences also are available. Additionally, independent study programs may be designed to allow study of areas in medicine not represented by formal course offerings.

Students who apply for more than three months of extramural rotations must obtain their advisor's permission and approval of the Academic Status Committee.

Each student must complete a minimum of 40 semester credit hours in the fourth year to be eligible for graduation. However, students must remain

enrolled and take coursework up to the time of graduation regardless of the total credit hours accumulated.

CLERKSHIPS (Third Year)
(8 weeks each)

ELECTIVES (Fourth Year)

Advanced Medicine Clerkship
(4 weeks)
Advanced Pharmacology
(4 weeks)
Ambulatory Care Selective
(4 weeks)
Surgery Selective (4 weeks)
Electives (6, 4-week units)

EVALUATION

The Academic Status Committee has the responsibility to review each student's performance and make recommendations to the dean of the College of Medicine regarding promotion and graduation. Members of the committee include faculty representatives from each department of the College of Medicine, coordinators for the preclinical courses and third year clerkships, the director of minority relations, the associate dean for education, and the associate dean for student affairs (who serves as chairman).

The overall performance of a student will be considered by the Academic Status Committee in preparing recommendations regarding promotion, graduation and general academic ranking. Information upon which recommendations will be made include grades, written evaluations, and cognitive and noncognitive data submitted by the faculty of the various curricular units, and scores on the United States Medical Licensing Examination (USMLE).

The College of Medicine expects all medical students to be professional in their dealings with patients and to exhibit caring and compassionate attitudes. These and other non-cognitive qualities/ attitudes will be evaluated during patient contacts and in other relevant settings. Attitudes inconsistent with compassionate care or refusal by the student to participate in learning or patient care directed at certain patient groups may be grounds for dismissal.

All students will be informed of their academic progress on a regular basis.

Standards of Performance

Students' performance in academic course work will be evaluated by letter grades A through F or Pass-Fail. The Pass (P) or Fail (F) grading system will be used in special circumstances as approved by the Curriculum Committee. Passing grades are A through C in order of excellence.

A grade of D connotes unsatisfactory performance; F, Failure and WF, Withdrew Failing. If a grade of D or F is assigned, remediation of this grade is required. The I (Incomplete) or F grade may be given to a student who fails to complete course requirements or who fails to attend or participate in required course activities. Students must receive a passing grade in every course to be recommended for graduation. If approved for remediation by the Academic Status Committee, any student with a D or F grade must complete required remedial coursework with a passing grade.

Remediation requirements will be determined by the appropriate course director and approved by the chairman of the respective department and the Academic Status Committee. Remediation must be completed prior to entering the next academic year, unless the plan for remediation, submitted by the

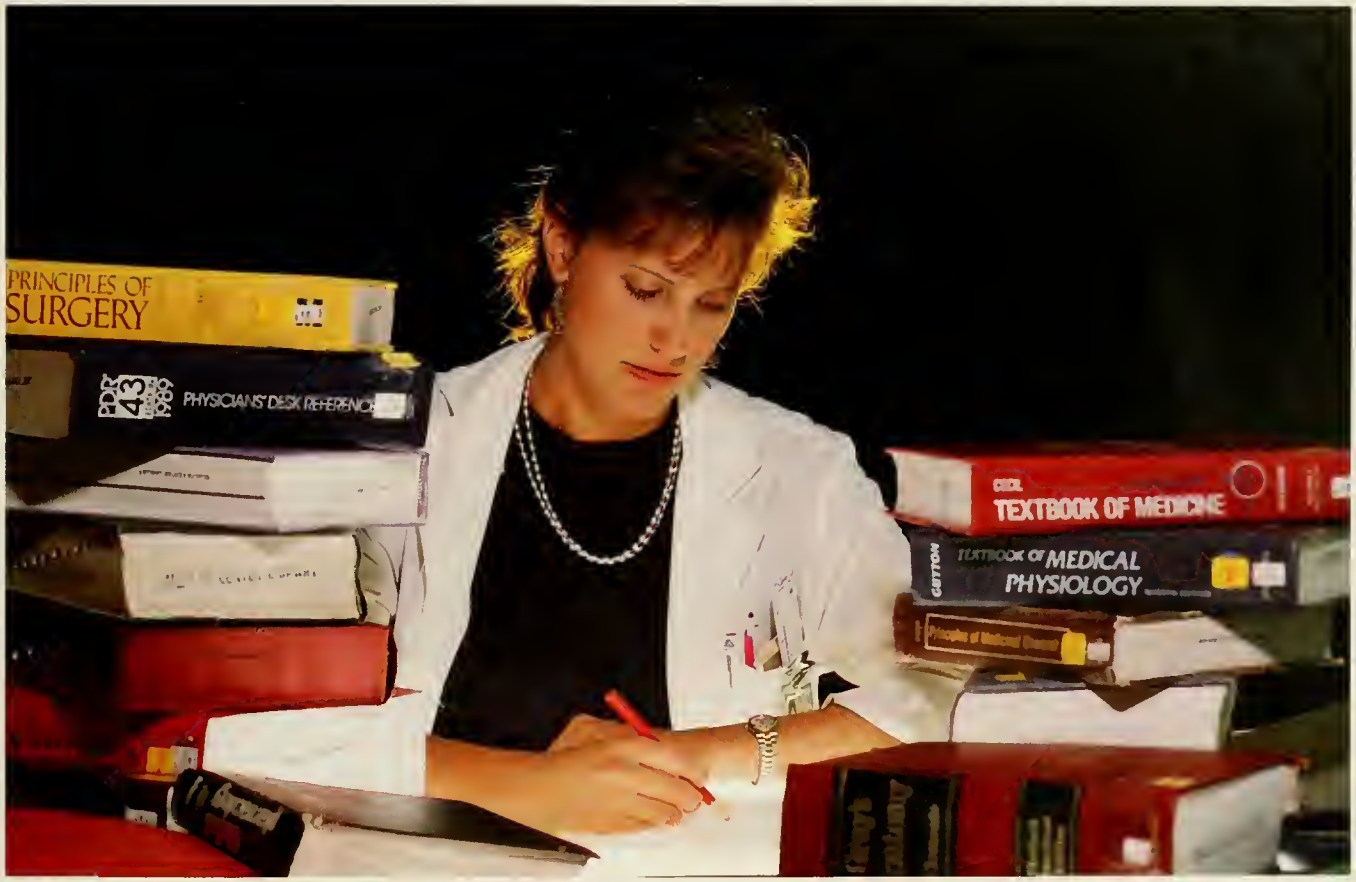
course director and approved by the Academic Status Committee, allows continuation into the first months of the next academic year.

Any incomplete coursework must be completed within a prescribed period of time or the grade will be converted to F.

The Academic Status Committee will review the performance of all fourth-year students to be considered for graduation. In addition to the satisfactory completion of all required and elective coursework, the student must have a grade point average of 2.0 or better and must have satisfactorily completed all remedial work with a grade of C or higher.

Students receiving a grade of less than C in remedial work may be dismissed. USMLE steps 1 and 2 must be taken before the student is approved for graduation.

Students who have demonstrated outstanding academic achievements will be recommended for graduation with honors. Excellence of different types in varied fields will be considered, such as superior academic work, outstanding student research and



thesis and other special achievements. Nomination and selection of students for graduation with special honors will be made by the faculty.

Probation and Dismissal

Students who fail to achieve satisfactory progress may be placed on academic probation or dismissed. The purposes of probation are: to identify unsatisfactory performance at an early date; to provide an opportunity for the student to receive counseling; to provide the student whose progress is unsatisfactory with further opportunity to improve and perform satisfactorily; and to notify the student that satisfactory progress is not being made toward standards required for graduation.

In accordance with university regulation, any student with less than a 2.0 grade point average will be placed on probation. Additionally, the following standards apply to students of the College of Medicine:

1) **Preclinical first year**—Any student receiving F grades in coursework totaling 9 or more credit hours or Ds or Fs in coursework totaling 13 or more credit hours during the first year will be automatically dismissed. Any student receiving an F in any course work or Ds in coursework totaling 5 or more credit hours will be placed on probation.

2) **Preclinical second year**—Any student receiving Ds or Fs in course work totaling 10 or more credit hours will be automatically dismissed. Any student receiving an F in any coursework or Ds in course work totaling 4 or more credit hours will be placed on probation.

Students electing to take the basic sciences under the three year optional tract will be governed by the following criteria: During the first two years of the option, any student receiving Fs in coursework totaling 7 or more credit hours or Ds or Fs in coursework totaling 9 or more credit hours will be automatically dismissed.

Any student receiving a D or F in any coursework will be placed on probation.

During the final year of the three year option, any student receiving Ds or Fs in course work totaling 10 or more credit hours will be automatically dismissed.

Any student receiving an F in any coursework or Ds in coursework totaling five or more credit hours will be placed on probation.

No student will be allowed to begin the clinical clerkships until all basic science coursework has been satisfactorily completed. Students who have received D, F, or I grades in preclinical coursework are not allowed to continue into the clerkship until that coursework has been satisfactorily remediated.

3) **Third year**—Any student receiving a D or F in any clerkship will be automatically placed on probation for one year. A student receiving a D or F in any clerkship while on probation will automatically be dismissed. Any student receiving a grade of incomplete will be reviewed by the Academic Status Committee.

The progress of any student who has been on academic probation for two consecutive years will be reviewed by the Academic Status Committee for consideration of dismissal. Students who fail to demonstrate appropriate academic progress for promotion and graduation may be dismissed.

Fourth year students are not allowed to begin their elective work until all D, F, or I grades given during clinical clerkships have been remediated or the student has received the approval of the Academic Status Committee to proceed with electives pending remediation of the coursework. Students who apply for more than three months of extramural rotations must obtain their advisor's permission and approval of the Academic Status Committee.

4) **Fourth year**—Any student receiving an F in a required fourth-year course, clerkship or selective or Ds or Fs in elective coursework totaling 8 or more credit hours during this academic period will be automatically dismissed.

A student receiving a D in any required fourth-year course, clerkship or selective or a D or F grade in an elective course will be automatically placed on probation. No student will be recommended for graduation until remedial work has been completed successfully.

Removal of Probation

A student will be removed from academic probation by action of the Academic Status Committee when he or she has received no grade of less than C for any coursework during a period of one calendar year after being placed on probation and the student has maintained a grade point average of 2.0 or better.

Appeals

A student has the right to appeal academic dismissal or any other actions affecting his or her academic status to the Academic Status Committee. The intent to appeal must be submitted by the student in writing to the chairman of the Academic Status Committee within two working days after receiving written notification of dismissal or other actions. The student will be notified in writing and invited to attend a meeting of the Academic Status Committee which will be convened within ten calendar days to hear the student's appeal, unless justification exists for a delay, in which case the student's appeal will be heard as promptly thereafter as possible.

A negative decision by the Academic Status Committee may be appealed to the dean of the College of Medicine. The intent to appeal to the dean of the College of Medicine must be submitted by the student in writing to the dean within two working days after receiving written notification of an adverse action by the Academic Status Committee. The decision of the dean in all appeals is final unless the president of the university or the president's designee agrees to hear the appeal. A student must notify the dean and submit the appeal to the president's office within two working days.

Probation for Students Who Successfully Appeal Dismissal

Students whose academic dismissal is reversed by successful appeal and who are permitted to repeat coursework will be automatically dismissed if a grade of less than C is received in any course during the repeated time period. If the coursework is satisfactorily completed, students will continue on probation for an additional calendar year, at which time the student may be removed from probation by favorable action of the Academic Status Committee. Students who are allowed to repeat fourth year coursework will remain on probation until they have successfully completed all of the requirements for graduation.

ACADEMIC HONESTY

The University of Florida expects students to be honest in all of their university classwork. Therefore, students are required to commit themselves to academic honesty by signing the following statement as part of the admissions process.

"I understand that the University of Florida expects its students to be honest in all of their academic work. I agree to adhere to this commitment to academic honesty, and understand that my failure to comply with this commitment may result in disciplinary action, up to and including expulsion from the University."

This statement serves to remind students of the obligations they assume as students at the University of Florida. Matters of violations of academic honesty are adjudicated by the Student Honor Court, the Health Center Student Conduct Standards Committee and faculty.

Academic Honesty Guidelines

Cheating: The giving or taking of any information or material of academic work considered in the determination of a course grade.

Taking of information includes, but is not limited to, copying graded homework assignments from another student; working together with other individual(s) on a take-home test or homework when not specifically permitted by the teacher; looking or attempting to look at another student's paper during an examination; looking or attempting to look at text or notes during an examination when not permitted.

Tendering of information includes, but is not limited to, giving your work to another student to be used or copied; giving someone answers to exam questions either when the exam is being given or after having taken an exam; informing another person of questions that appear or have appeared on an exam in the same academic term; giving or selling a term paper or other written materials to another student.

Plagiarism: When an individual attempts to pass off the work of another as the product of his or her own thought, whether the other's work is published or unpublished, or simply the work of a fellow student.

Plagiarism includes, but is not limited to, copying homework answers from your text to hand in for grade; quoting text or other written materials without citation thereto on an exam; term paper, homework, or other written materials submitted to a teacher when requested by the teacher to present your own work; handing in a paper as your own work which was purchased from a term paper service; retyping a friend's paper and handing it in as your own work; taking a paper from fraternity/sorority files and handing it in as your own work.

Bribery: The offering, giving, receiving or soliciting of anything of value to influence a grade. Bribery includes, but is not limited to, offering, giving, receiving or soliciting money or any item or service to a teacher or any other person so as to gain academic advantage for yourself or another.

Conspiracy: Planning with one or more persons to commit any form of academic dishonesty, including but not limited to, giving your term paper to another student you know will plagiarize it.

Misrepresentation: Having another student do your computer program and handing it in as your work; lying to a teacher to increase your grade; or any other act or omission with intent to deceive a teacher as to the authorship of oral or written materials submitted or presented to a teacher which would affect your grade.

HEALTH SCIENCE CENTER STUDENT CONDUCT STANDARDS COMMITTEE

At the discretion of the University's Office of Student Affairs, the Health Science Center Student Conduct Standards Committee may assume responsibility for the adjudication of alleged violations of the University of Florida Academic Honesty Guidelines for students enrolled in the College of Medicine. The committee is composed of four faculty members and one student, appointed by the president of the university. Sanctions available to the committee include reprimand, conduct probation, suspension or expulsion. The committee will furnish to students charged with a

violation of the Academic Honesty Guidelines rules of procedure that include the following:

A) The right to be notified in writing of the charges against him/her with sufficient detail and time to prepare for the hearing;
B) The right to a prompt hearing before the committee;
C) The right to know the nature and source of evidence which will be used against him/her;
D) The right to present evidence in his/her own behalf;
E) The right to freedom against compulsory self-incrimination; and
F) The right to appear with an advisor at the hearing.

A decision made by the Health Science Center Student Conduct Standards Committee may be appealed to the president of the university, and must be filed within five working days of notification of the decision.

Student Conduct Code

Students enjoy the rights and privileges that accrue to membership in a university community and are subject to the responsibilities that accompany that membership. In order to have a system of effective campus governance, it is incumbent upon all members of the campus community to notify appropriate officials of any violations of regulations and to assist in their enforcement. All conduct regulations of the University are printed and made available to all students and are applicable upon publication in the Independent Florida Alligator, the undergraduate catalog, the UF student guide, or other reasonable means of notification.

The President is charged with the responsibility for establishing and enforcing regulations governing student life. Regulations are designed to enable the university to protect against the conduct of those who, by their actions, impair or infringe on the rights of others or interfere with the orderly operations of the university. Discipline may be imposed for offenses against the Student Conduct Code occurring at any of the following locations or activities:

A. University campus;
B. University owned or controlled property;
C. Property or housing units assigned for responsibility to the University, including, but not limited to fraternity and sorority property;
D. Activities sponsored by the University;
E. Activities officially approved by the University which are conducted by University chartered organizations; and
F. Off-campus activities as described in section VI of the Student Conduct Code in the University's undergraduate catalog.

The primary judicial bodies authorized by the President and charged with the administration and enforcement of this code shall formulate and furnish to students charged with an offense, rules of procedure which shall ensure basic procedural fairness including, but not limited to:

A. The right to be notified in writing of the charges against him/her with sufficient detail and time to prepare for the hearing;
B. The right to a prompt hearing before an appropriate official, committee, or court;
C. The right to know the nature and source of the evidence which will be used against him/her;
D. The right to present evidence in his/her own behalf;
E. The right to freedom against compulsory self-incrimination; and
F. The right to appear with an adviser at the hearing.

Violation of the Code of Conduct

A student may be expelled or receive any lesser penalty for the following offenses:

1) Furnishing false information to the University.

2) Forgery, alteration, or misuse of University documents, records, or identification cards.

3) Unauthorized use, taking possession or destruction of public or private property on campus, or acts committed with disregard of possible harm to such property.

4) Actions or statements which amount to intimidation, harassment, or hazing.

5) Participation in or continued attendance at a raid on a University living area, after warning to disperse by a University official or any law enforcement officer.

6) Disorderly conduct as defined in Florida Statutes.

7) Disrupting the orderly operation of the University as defined in Florida Statutes, and the demonstration policy of the University.

8) Failure to comply with any University rule or regulation, including, but not limited to, the Alcoholic Beverages Rule and the Academic Honesty Guidelines.

9) Violations of Housing, Inter-Residence Hall Association, and area government regulations.

10) Violation of any discipline sanction, including, but not limited to, conduct probation.

11) Possession, use, or delivery of controlled substances as defined in Florida Statutes.

12) Possession or use of a firearm on the University campus except as specifically authorized in writing by the University.

13) Action(s) or conduct which hinders, obstructs, or otherwise interferes with the implementation or enforcement of the Student Conduct Code.

14) Failure to appear before any of the disciplinary authorities and to testify as a witness when reasonably notified to do so. Nothing in this subsection shall be construed to compel self-incrimination.

15) Violation of any municipal ordinance, law of the State of Florida, law of the United States, or rule promulgated by the Florida Board of Regents.

16) Ticket scalping, i.e., selling tickets to any University of Florida function or event being held or to be held on the University of Florida campus, for more than $1.00 over the original price.

17) Possession or use of fireworks, explosives, dangerous chemicals, ammunition or weapons (including, but not limited to, bows and arrows or switchblade knives).

18) Actions which are committed with disregard of the possible harm to an individual or group, or which results in injury to an individual or group.

19) Any actions, including those of a racial or sexual nature or involving racial or sexual activities, which are intimidating, harassing, coercive, or abusive to another person, or which invade the right to privacy of another person.

20) Any action without authorization from the University which does or causes to, access, use, modify, destroy, disclose or take data, programs or supporting documentation residing in or relating in any way to a computer, computer system or computer network or causes the denial of computer system services to an authorized user of such system.

Further information concerning the Code of Conduct (i.e. off-campus conduct, postponement of

hearing due to pending or possible criminal or civil charges, student's waiver of right to a hearing, summary of hearings, conflicts of jurisdiction, sanctions, and appeals) are detailed in the University's undergraduate catalog.

Sexual Harassment Information and Procedures

Sexual harassment is defined as persistent and unwanted sexual attention from a person in a position of authority or power. A student concerned about sexual harassment by a member of the faculty or housestaff should contact a member of the Student Advocacy Committee or staff member in the Office of Student Affairs. In all cases, every possible effort will be made to insure confidentiality and to protect the rights of both student and faculty member. If resolution of a complaint cannot be reached informally, the student will be advised about formal grievance procedures.

Policy for HIV and Other Infectious Diseases

A personal health history questionnaire completed by the student is required prior to registration at the University. Students are also required to present proof of two immunizations against measles, mumps, rubella (MMR) and in the absence of such proof will be reimmunized by Student Health. In addition, immunization against hepatitis B is required prior to clinical rotations.

Students, faculty or staff who have an occupational exposure in the health center to hepatitis or to the human immunodeficiency virus (HIV) should report immediately to Employee Health and file an accident report. For HIV exposures it is most important that this take place within an hour. If Employee Health is closed, report to the Shands Emergency Room. The exposure will be investigated in a confidential manner to estimate the risk of the exposure and to recommend prophylaxis should this be necessary.

Exposures which occur at other hospitals, such as the Gainesville Veterans Affairs Medical Center, should be reported to the appropriate staff of those institutions.

Currently, Shands Hospital does not recommend routine HIV testing of patients or healthcare workers. When testing is medically advisable, it is subject to informed consent. The results are held confidential. However, legislation both at the federal and state levels may result in changes in the criteria for testing and reporting.

If HIV infection occurs in a student, any recommendations made or actions taken by the hospital or the College of Medicine will respect the confidentiality and welfare of the student in addition to the welfare of patients, the hospital and the medical school.

All communicable diseases contracted by students will be handled according to the protocols for Employee Health and Infection Control to prevent dissemination to patients and other health care workers. Certain infections will be reported to the State as required by law.

Health and Disability Insurance

Beginning with the Fall semester 1992, the College of Medicine requires all medical students to be covered by health insurance. This insurance may be through a family policy, with a private agency or through the group policy offered by the University of Florida. Students must provide proof of insurance to the Office of Student Admissions and Activities, College of Medicine before registering for classes.

The College of Medicine strongly advises all medical students to acquire disability insurance. Information on disability policies will be available to all students in the Office of Student Admissions and Activities, College of Medicine.

College of Medicine Dress Code Policy

The official dress code of the College of Medicine is: clean shirts and shoes for graduate students and students in the preclinical years. No shorts are to be worn. Ties for men, and white lab coats with name tags shall be worn by all students and housestaff who have contact with patients or are in patient care areas.

All College of Medicine students, at all levels of education and training, are expected to maintain a proper professional image in their behavior and appearance at all times.

GRADUATE AND POSTGRADUATE PROGRAMS

Graduate Education in the Medical Sciences

Programs Leading to the M.S. and Ph.D. Degrees

The educational continuum of the medical sciences is designed to provide flexibility in terms of the type of degree which may be earned as well as the type of subject matter which may be included in the individual curriculum.

Programs leading to the Ph.D. degree in medical sciences are offered by the College of Medicine through the Graduate School of the University. The programs offered in anatomy and cell biology, biochemistry and molecular biology, immunology and medical microbiology, neuroscience, pathology and laboratory medicine, pharmacology and therapeutics, and physiology are intended to give talented individuals an opportunity to engage in careers of research and teaching in the basic science medical disciplines.

An interdisciplinary program in "Cell Structure and Function in Health and Disease" and "Interdisciplinary Toxicology Graduate Specialization" were added during the 1990-1991 academic year. Interdisciplinary programs in "Mammalian Genetics" and in "Vision Science" become available during the 1991-92 academic year. The Department of Biochemistry and Molecular Biology also offers a program leading to the Ph.D. in biochemistry.

The M.S. degree in the medical sciences is offered by the Departments of Anatomy and Cell Biology, Biochemistry and Molecular Biology, Immunology and Medical Microbiology, Neuroscience, Pathology and Laboratory Medicine, Pharmacology and Therapeutics, and Physiology. The Department of Biochemistry and Molecular Biology also offers the M.S. degree in biochemistry.

The prime requirements for admission to these programs are personal integrity, motivation, and general scholastic achievement. Candidates must satisfy the general requirements for admission to the Graduate School and produce a satisfactory score on the Graduate Record Examination.

Candidates should have an undergraduate major in a biological or physical science, but other undergraduate areas of concentration appropriate for study in the basic medical sciences are engineering and mathematics.

In order to remedy deficiencies in their backgrounds, some candidates may find it necessary to take additional undergraduate courses even though they hold the A.B. or B.S. degree required for Graduate School admission.

The completion of a satisfactory dissertation based on original research is the most important single requirement of the Ph.D. program. Most of the work involved in the dissertation ordinarily will be done in the last two years of residence, but candidates will be encouraged to begin their research in a preliminary exploratory fashion toward the end of their first year.

Graduate education in the basic medical sciences is planned from an interdisciplinary point of view, but with a major in the fields of anatomy and cell biology,

biochemistry and molecular biology, immunology and medical microbiology, neuroscience, pathology and laboratory medicine, pharmacology and therapeutics, or physiology. A minor is not required but may be elected in any relevant discipline approved for graduate study in the university.

Graduate students have the opportunity of assisting in the teaching of medical and undergraduate courses and most students are advised to do so as part of their training. Teaching and research assistantships and nonresident tuition scholarships are available to most students.

Medical Scientist Training Program (Combined M.D./Ph.D. Degree)

The Medical Scientist Training Program (MSTP) is designed for highly qualified students who are strongly motivated toward an academic career in the medical sciences. This is a flexible six to seven year program which attempts to provide in-depth graduate education in a basic science discipline, a rigorous medical education, and an introduction to clinical investigation. The program is administered by the Medical Scientist Training Program Steering Committee consisting of members of both clinical and basic science departments.

Candidates for the program must satisfy admission requirements for the College of Medicine and the Graduate School. Since successful candidates are selected from those admitted to the College of Medicine, application begins with standard application to the medical school.

All candidates who receive the supplemental application forms will be given the option to apply for the Medical Scientist Training Program. Direction for such application is provided at that time. Successful applicants are expected to achieve satisfactory scores on the Medical College Admission Test and to have personal qualities of high order, superior intellectual accomplishments, research experience and genuine interests in human welfare and an academic career.

The Graduate Record Examination is required before matriculation into the Ph.D. portion of the program. Students already enrolled in medical school may apply to the program.

The student will enroll in all courses for the M.D. degree. In addition, the student will be required to complete the requirements for the Ph.D. as established by the university and the MSTP program. Normally the student's mentor will be chosen from members of the seven basic science departments in the college of medicine, but under special circumstances, other departments in the University may be accepted as alternatives.

It is recognized that MSTP students in the first two years of medical school will have received some training in each of the basic sciences. Students in the program will also be exposed to special seminars and courses in human biology and clinical research which are incorporated into the program. Therefore, the "normal" course requirements expected of graduate Ph.D. students by the individual basic science departments will be waived and only one core course, determined by the student's mentor in consultation with appropriate members of the student's department, will be required.

In some cases, this requirement may have already been met through courses taken during the first two years of the medical curriculum. The student's Ph.D. graduate advisory committee reflects the interdisciplinary nature of the program and will be composed of the student's mentor and members of both the mentor's department and the MSTP program's educational committee.

The MSTP educational committee, consists of the MSTP steering committee plus appropriate qualified faculty approved by the MSTP steering committee.

The program is designed to be flexible, and the Medical Scientist Training Program Steering Committee

will assist in planning the curriculum and determining progress throughout the student's career, in keeping with the interdisciplinary nature of the program.

In most cases, the student will be expected to initiate a research project during the summer before starting medical school and, if necessary, a second research project the summer following the first and/or second year after matriculation into the program.

The student usually selects a mentor for the Ph.D. thesis by the end of the second year of the program. Standards of evaluation for both the M.D. and Ph.D. portions of the combined program will be similar to those in the separate M.D. and Ph.D. programs.

The Committee on Academic Status of the College of Medicine will evaluate the student's performance and recommend promotion to the next class or awarding of the M.D. degree. The Graduate Advisory Committee, in conjunction with the MSTP steering committee will assess graduate performance.

Most, if not all, students accepted to the program can anticipate financial support (graduate research assistantships) during the graduate portion of the program. In addition, select students will be awarded annual stipends of at least $9,000 while in the medical portion of the program on the condition that both degrees are obtained.

Graduate Medical Education (Residencies and Fellowships)

Graduate Medical Education has become an integral part of the training of the practicing physician. The University of Florida recognizes the importance of graduate medical education and sponsors programs leading to board eligibility in virtually all the specialties recognized by the Accrediting Council on Graduate Medical Education (ACGME). All of the programs sponsored by the University of Florida are approved by the ACGME and listed in the directory of approved residencies.

Most of the residency training occurs in Shands Hospital or the adjacent Veterans Affairs Medical Center. The family practice residency is primarily based at Alachua General Hospital.

Certain specialty programs rotate residents to other hospitals in order to maximize their educational experience. All hospitals in which graduate education is conducted hold certification from the Joint Commission on Accreditation of Health Care Organizations.

Formal residency programs are offered in anesthesia, dermatology, family practice, general surgery, internal medicine, neurology, neurosurgery, obstetrics and gynecology, ophthalmology, orthopaedic surgery, otolaryngology, pathology, pediatrics, plastic surgery, psychiatry, radiology and its subspecialties, thoracic surgery, urology and vascular surgery. Salaries and benefits are competitive with salaries and benefits paid to other housestaff in this region of the country.

A limited number of clinical fellowships, some of which lead to subspecialty board eligibility are offered in the various subspecialties of anesthesiology, family practice, medicine, pathology, pediatrics, psychiatry, radiology and surgery. Most departments offer the opportunity to do research during residency training and there is the opportunity to work toward advanced degrees in collaboration with the basic science departments if the trainee so selects.

Application to the residency program should be made through the matching program or directly to the residency program directors at the University of Florida.

University of Florida residency programs only accept individuals who are graduates of medical schools accredited by the LCME and graduates of foreign medical schools who hold the Educational Commission for Foreign Medical Graduates (ECFMG)

certificate and have passed NBME Parts I and II, FLEX or USMLE Steps 1 and 2.

For detailed program information and application, the applicant should write the appropriate department or contact the Office of Housestaff Affairs, Box 100371 JHMHSC, Gainesville, Florida 32610-0371.

Licensure

The United States Medical Licensing Examination (USMLE) is a single examination system for use by all U.S. medical licensing jurisdictions to assess all candidates equitably for initial medical licensure.

Initial licensure to practice medicine and surgery in Florida can be obtained by completing all three progressive steps required in the USMLE.

The USMLE replaces the two currently existing examination sequences used in the medical licensing process: the Federation Licensing Examination (FLEX) and the certifying examination of the National Board of Medical Examiners (NBME).

Phase-in of USMLE begins in 1992 with the first administration of the USMLE Step 1 in June. Full implementation of the USMLE Steps 1-3 and phase-out of the FLEX Components one and two and NBME Parts I, II and III will be completed by 1995.

Step 1 focuses on key concepts of basic biomedical science, with special emphasis on principles and mechanisms underlying disease and modes of therapy.

Step 2 focuses on clinical science essential for practice within a supervised setting.

Step 3 will focus on aspects of biomedical and clinical science essential for the unsupervised practice of medicine.

The single examination system ensures the maintenance of high standards based on performance required of students in, or graduates of, medical schools accredited by the LCME; strives for cost-containment and efficiency in combining two examination sequences; and preserves the complementary roles of medical licensing examinations and other requirements for licensure, such as the quality and amount of medical education and post-graduate training.

Since various state laws differ as to licensure requirements, it is the responsibility of the medical student to become familiar with the qualifications for licensure in the state or states which he or she might consider as potential locations for the practice of medicine.

Continuing Medical Education

The College of Medicine recognizes its responsibility in the continuum of medical education by assisting the physician-in-practice to gain new knowledge and expertise to improve patient care.

The Office of Continuing Medical Education (CME), under the Associate Dean for CME, assesses the needs of the practicing physician and, working with its advisory committee, plans workshops, conferences, seminars and symposia for the practicing physician. These programs meet the standard of the American Medical Association for the Physician's Recognition Award. In addition, departments and divisions within the College of Medicine offer specialty rounds and conferences that the practicing physician is eligible to attend. All of these programs enable the physician to fulfill the requirements of licensure in the State of Florida.

Other programs in CME are conducted in cooperation with the Florida Board of Medicine, the Florida Medical Association, the Florida Academy of Family Physicians, and a variety of medical specialty groups.

STUDENT INFORMATION

FINANCIAL CONSIDERATIONS

The fee structure for Florida residents and nonresidents in the M.D. program of the College of Medicine is subject to change from year to year. Fee information can be obtained after July 1, 1992, by contacting the Student Financial Services, S113, Criser Hall, Gainesville, Florida, 32611. Students are registered for two semesters during their first and fourth years and for three semesters the second and third years. Fees and method of payment are subject to change and are payable in accordance with university regulations. The registration fee includes a Student Health Fee and a Student Activity Fee for each of the semesters. Most of the services and facilities of the Student Health Services are available to students without additional charge.

A group health insurance program sponsored by Student Government is available at a reasonable cost. The activity fee covers the student's attendance at a wide variety of social, athletic and cultural events which are offered by the University.

Registration dates for each class in the College of Medicine are set by the Registrar's Office and students are notified when their group is expected to complete registration. Fees must be paid in accordance with dates published in these instructions or they are increased by $50.

Students who are interested in doing work toward an advanced degree in the medical sciences should consult the Bulletin of the Graduate School for information concerning tuition and fees.

Textbooks and instruments needed by a first-year student will require an expenditure of about $700-$900. Purchase of a microscope will not be required as the College of Medicine, through a special fund, has established a microscope bank and provides each entering student with a microscope on a loan basis.

The minimal annual cost for a single Florida resident for the first year is approximately $8,000 plus tuition.

SCHOLARSHIPS

AMA-ERF Scholarship: These scholarships are awarded to medical students on the basis of financial need.

The Charles O. Andrews, Jr. Scholarship Fund: A merit scholarship fund established in 1978 in the memory of Judge Andrews and awarded annually to a M.D./Ph.D. student.

W. Paul Bateman Scholarship: Established by the Bateman Foundation, this scholarship assists worthy medical students in need of financial assistance.

Fred Bear Scholarship: This scholarship provides financial assistance to medical students who have demonstrated strong merit and are deemed to have financial need.

Jean Lester Bennett, M.D. Scholarship Fund: An endowed scholarship given to a senior medical student who has decided on a career in pediatrics.

Ralph G. Blodgett Scholarship: Established by Mrs. R. G. Blodgett, this scholarship was established to support qualified students in the College of Medicine who need financial assistance.

Dr. Mark David Buehler Scholarship Fund: This scholarship, established by the family and friends of Dr. Buehler, will be used to support a student who plans to specialize in emergency room medicine.

The Maurice H. Givens Scholarship Fund: An endowed fund established in 1975 to provide financial assistance to students in the College of Medicine.

The Mr. and Mrs. W. A. Gordon Scholarship Fund: This unrestricted endowed fund was established in 1977 to assist worthy male students who demonstrate a need for financial assistance.

Gold Family Scholarship Fund: Provides need-based scholarship awards with priority given to black or African/American students who are graduates of New Jersey high schools.

Federal Scholarship for Students of Exceptional Financial Need: The Health Professions Educational Assistance Act of 1976 authorized "Scholarships for First-year Students of Exceptional Financial Need" and has expanded eligibility to include students from all four years. This scholarship program provides for the payment of tuition and fees and all other reasonable educational expenses.

Medizinische Hochschule Hannover-American Exchange Scholarship: This scholarship is awarded annually to a fourth-year student for the purpose of studying at the University of Hannover, West Germany and for German medical students to study at the University of Florida College of Medicine. This exchange program was made possible through funds of the DAAD (German Academic Exchange Service).

Hugh M. Hill, M.D. Fund for Student Financial Assistance: This fund was established in 1991 to honor the Associate Dean for Student and Alumni Affairs, Hugh M. Hill, M.D. This fund includes alumni donations and is to be used to assist needy students in the College of Medicine.

The George Graham Hunter Scholarship Fund: This scholarship is awarded each year to an undergraduate medical student in the field of orthopaedics. The recipient of the scholarship shall be designated by the orthopaedic faculty and approved by the dean of the College of Medicine.

C. J. Miller Scholarship: An endowed fund whose purpose is to support a junior or senior medical student in good academic standing who is in need of financial assistance.

The Nell C. Miller Scholarship: This endowed fund was established in 1982 under the terms of the will of Mrs. Miller to provide partial scholarships for medical students interested in cardiovascular physiology or diseases, or related problems.

Avonelle C. Noah Scholarship Fund: An endowment fund was established in 1968 under the terms of the will of Mrs. Avonelle C. Noah. The income from this fund is to be used to assist worthy students in the College of Medicine.

Palm Beach County Medical Auxiliary Scholarship: This scholarship is given to a third year medical student who is a graduate of a Palm Beach County high school.

Susan O. Rasmussen Scholarship: This fund provides financial assistance to students from central Florida who are enrolled in the College of Medicine and have financial need.

J. Craig Spencer Memorial Scholarship: Established by the family and friends in memory of Dr. Spencer. This scholarship is to be awarded to an individual with a compassionate and caring manner and who has achieved academic success.

Wheat Medical Scholarship Fund: An endowment fund was established in 1967 under the terms of the will of Mrs. Eva H. Wheat. The income from this fund is to be used to assist worthy male medical students selected by the College of Medicine to continue their education.

William Warren and Marie C. Wolff Scholarship: This scholarship was established to assist needy, worthy, and talented young men and women medical students who are dedicated to the science of medicine, and who otherwise could not receive such education.

County Scholarships: Various counties in Florida, such as Broward, Lee and Palm Beach, have established scholarship awards to residents who attend the University of Florida College of Medicine.

SCHOLASTIC AWARDS

Alpha Omega Alpha Honor Medical Society: The Beta Chapter of Florida was installed at the University of Florida College of Medicine on May 9, 1960. A small number of students of the junior and senior classes are eligible for membership. Selection is based upon high academic standing, personal and professional character, and promise for future contributions to medicine.

Alumni Scholarship Award: This award was established by the University of Florida Medical Alumni Association from donations by its members and is awarded at the end of the junior year to students who are judged outstanding scholastically.

The American College of Physicians Award: This award, established by the American College of Physicians, is given by the Department of Medicine to a senior student for outstanding performance in internal medicine.

The Thorkild W. Andersen Award: The Department of Anesthesiology established this award to honor of the department's first faculty member. It is presented to the senior medical student who has made the greatest overall contribution to the College of Medicine and his or her fellow students.

The Dean Mitchell Baker Award: This scholarship was established by Dr. and Mrs. Roy M. Baker of Jacksonville in memory of their son and is awarded each year to a graduating medical student for excellence in the field of pediatric cardiology.

Bythewood & Baker Memorial Scholarship Award for Women Medical Students: An endowed fund was established in 1968 by Miss Martha Isabel Mays and is awarded to a junior female medical student who is judged to be academically outstanding.

The Hugh and Cornelia Carithers Award: Established by Dr. Hugh and Cornelia Carithers of Jacksonville, this endowed award is presented each year to a graduating student on the basis of over-all accomplishments and aptitudes in child health and human development.

Joel Cohen, Patricia Ann Maddalone Memorial Award: This award was established in memory of Joel Cohen who demonstrated superior skill, imagination and industry in the laboratory research of drug hypersensitivity, and is to be presented each year to that student demonstrating outstanding proficiency in clinical or laboratory investigation in the field of immunology.

Charles Collins Obstetrical and Gynecological Award: Established in 1975 by the Florida Obstetrical and Gynecological Society to honor Dr. Charles Collins of Orlando, this award is given each year on a rotating basis to a graduating medical student in one of the three medical schools in the state who has shown academic excellence and outstanding performance in the field of obstetrics and gynecology.

The Dr. Robert R. Donahoe Memorial General Surgery Award: This award, established in memory of Dr. Donahoe, is to recognize a senior student who has chosen a career in the field of general surgery and who has exhibited superior skill and dedication to patients.

Class of 1980 Donegan Scholarship Award: The Class of 1980 established this award for peer recognition of academic excellence, personal integrity and financial need of a rising senior medical student and to honor Miss Hazel Donegan of the Office of Student Admissions and Activities, College of Medicine.

Paula Ellis Scholarship Award: The Gainesville Junior Woman's Club established this award as a memorial to Paula Ellis. It is given to a medical student chosen for academic excellence and/or meritorious service who shows promise and interest in the prevention or treatment of cancer.

Paul R. Elliott Award: This award was established by the Program in Medical Sciences to be given annually to the graduating physician whose performance and career aspirations best reflect the ideals and program goals as set forth by Paul R. Elliott to provide excellence in primary care.

W.F. Enneking Award: Established and funded by the Musculoskeletal Oncology Fellows of the Department of Orthopaedics, this award is to be given annually to the graduating medical student who, in the opinion of the faculty of the orthopaedic department, shows the most promise of making a contribution to medicine through an academic career.

The Faculty Award for Research: This award is given to the graduating medical student who has made the most outstanding contribution through research during the course of medical school.

Florida Chapter of the American College of Surgeons Award: Given to an outstanding student in the graduating class this award honors a student who will pursue a career in surgery.

The Gainesville Medical Group Internal Medicine Scholarship Award: Established by the Gainesville Medical Group this award is to be presented annually to a rising senior medical student in recognition of academic achievement and excellence in the field of medicine.

The John Gorrie Award: This award, instituted by Dr. Theodore F. Hahn, Jr., is presented each year to the graduating medical student who, in the opinion of the faculty of the College of Medicine, is the best all-around student showing promise of becoming a practitioner of the highest type.

Florida Obstetric-Gynecologic Society Award: Given by the Society, this award recognizes a senior student who has distinguished him/herself academically in the field of obstetrics and gynecology and has demonstrated a dedication to patient care.

Eugene Craig Haufler Award: This award is given to a graduating medical student to recognize overall excellence in pediatrics.

Samuel D. Harris Scholarship Awards: These scholarships were established by Mr. George Harris of St. Augustine, in honor of his brother, to recognize senior medical students who have shown proficiency in psychiatry, geriatrics, urology, pulmonary,

immunology and rheumatology, ophthalmology, and otolaryngology.

The Luther W. Holloway Award: The Florida Pediatric Society established this award in honor of the late Dr. Luther W. Holloway. It is to be awarded to the senior medical student showing the greatest proficiency in child health.

Juri V. Kaude, M.D., Ph.D. Medical Student Research Award in Radiology: This award, established by the Department of Radiology, recognizes a senior student who has been involved in research in Diagnostic Radiology. Research may be either investigative or clinical and the student may have participated either as the primary investigator or as a member of the team.

Albert G. King Award for Scientific Achievement in Research: This award is presented each year by the Watson Clinic of Lakeland to the medical student chosen for productive effort and scientific contribution. The research must have been presented at a Medical Student Research Conference during the academic year.

Lyerly Neurosurgical Group Award: The Department of Neurological Surgery presents this award to the graduating medical student who has distinguished himself/herself in the field of neurological surgery.

Genevra Todd and Henry E. Meleney Memorial Award: This award, established originally by the late Dr. Henry E. Meleney in memory of his wife, is to be given to a medical student for outstanding achievement during the first two years of medical study.

The Professor James M. Murdoch Therapeutics Award: This award recognizes a senior medical student's outstanding knowledge and excellence in the field of therapeutics.

Netter Atlas Award: Sponsored by Ciba Pharmaceutical Company, this award is given each year in recognition of a medical student who has contributed the most to community service.

Walt Oppelt Memorial Award: Established in memory of the late Dr. W. Walter Oppelt by friends, associates, and the Departments of Pharmacology and Therapeutics and Medicine, this annual award will be presented to a medical student who has excelled in the field of pharmacology and therapeutics.

William Osler Award in Internal Medicine: This award was established by the Department of Medicine and is donated by past and present chairmen of the Department of Medicine, chiefs of the Medical Service at the Veterans Affairs Medical Center and chief residents in medicine. It is given to the graduating medical student who has demonstrated outstanding proficiency and excellence in the field of internal medicine.

Guillermo J. Perez Memorial Scholarship Award: The Department of Pediatrics established this award in memory of the late Dr. Perez, a former member of the pediatric faculty, to recognize a senior medical student who demonstrated an interest in adolescent medicine.

The Haven M. Perkins Award: This award, in honor of the first resident in the Department of Anesthesiology, is presented to a second-year student who has achieved the highest academic standing in the basic sciences.

Senior Excellence Award in Radiology: Given by the Department of Radiology, this award recognizes a senior student, entering any specialty, who has demonstrated outstanding achievement in the Senior elective in Radiology.

Plastic and Reconstructive Surgery Award: The Division of Plastic and Reconstructive Surgery established this award to recognize that senior medical student who has shown academic achievement and excellence in this surgical specialty.

Dr. Peter Regan Award: This award, named in honor of the first chairman of the Department of Psychiatry, is given to recognize a senior student who has demonstrated excellence and has a career goal in the field of psychiatry.

Sandoz Award: Instituted by Sandoz Pharmaceutical, this award is presented annually by the Department of Community Health and Family Medicine to a senior medical student in recognition of superior academic achievement and contribution to health care.

Roger G. Schnell Neurology Book Award: Dr. Roger G. Schnell, of Ft. Lauderdale, established this award is to honor a medical student who has shown excellence in the field of clinical neurology.

The George T. Singleton, M.D. Award: Established by the Department of Otolaryngology to honor Dr. Singleton, this award is presented to a senior medical student who has shown academic achievement, research interest, clinical skills and exemplary work habits while rotating on the otolaryngology service.

The Marian Solowy Memorial Award: This award, given by Mrs. Solowy's family, recognizes a graduating medical student who has distinguished himself/herself in the field of neonatal-perinatal medicine.

Syntex Dermatology Award: The Divison of Dermatology presents this award to a senior medical student who has shown proficiency and interest in the field of dermatology.

John Harrington Tanous, M.D. Cancer Research Award: Presented each year by the Watson Clinic of Lakeland, this award recognizes outstanding research by a medical student in the general area of clinical or basic aspects of cancer and cell growth.

The William C. Thomas, Sr. Award: This award honors an outstanding senior medical student with an interest in obstetrics and gynecology. The award is made possible by the Florida Obstetric Gynecological Society.

F. Eugene Tubbs, M.D., J.D., Memorial Award: This award was established in 1979 in memory of the late Dr. Tubbs, a former resident physician in the College of Medicine and member of the Florida House of Representatives. This award is given jointly each year to a University of Florida senior medical student and a Florida State University law student who have demonstrated excellence in their field.

The University Medical Guild Memorial Award for Academic Excellence: This award is presented to a graduating senior by the University Medical Guild to

recognize academic excellence through four years of medical school.

The University Medical Guild Academic Scholarship: Given each year to a first-year student based on scholastic accomplishments and financial need. This award is for four consecutive years of medical school provided scholastic merit is maintained.

The University Medical Guild Scholarship Awards: These awards are presented each year by the University Medical Guild to a second year and third year student who are judged to be outstanding scholastically and to an entering student on the basis of need and scholastic excellence.

The University Medical Guild Graduate Research Awards: Presented each year to four graduate students in the basic medical sciences who are judged to have performed the best research during their graduate studies.

The University of Florida Medical Guild Award in Memory of Mrs. J. Hillis Miller: Given annually to a first-year student, this award is to recognize outstanding academic achievement by a student during the first year of medical school.

The University Medical Guild Professional Development Scholarship Award: This scholarship is awarded each fall to a senior medical student based on scholastic achievements and financial need.

Upjohn Achievement Award: The Upjohn Company Achievement Award program presents this award to the graduating medical student who achieves the highest academic standing during the four years in medical school.

Edward R. Woodward Surgical Award: This award, established by the Department of Surgery, is given to a senior medical student who best demonstrates strengths of moral and ethical fiber, social consciousness, and the traits of intelligence, tenacity and perspicacity.

LOAN FUNDS

College of Medicine Loan Funds: Loans from these funds are available to students enrolled in the College of Medicine who are in good academic standing and can show sufficient evidence of financial need. Interest (at 9%) begins at graduation and continues until repayment is completed. Repayment ordinarily begins one year after graduation. Short-term loans are available through the Office of Student Financial Services for emergencies, but must be repaid within the semester borrowed.

These funds have been made possible by grants from the W. K. Kellogg Foundation, the Selby Foundation, the Patrick J. O'Shaughnessy Memorial Fund, the John J. Tigert Memorial Fund, the Frederick F. Kumm, M.D., Memorial Loan Fund, the Helen Stargardt Memorial Loan Fund, the George M. Green, M.D., Memorial Loan Fund, the Algia Collins, Jr., M.D., Memorial Fund, George W. Jenkins Foundation/Publix Scholarship, Alachua County Medical Auxiliary, Gainesville Medical Group, and by gifts from several organizations and individuals within the State of Florida. Loans are administered by the College of Medicine's faculty-comprised Financial Aid Committee.

University of Florida College of Medicine Alumni Association Loan: This loan was established by the members of the college's Alumni Association from donations by its members and awarded to worthy students in financial need.

Dudley Beaumont Loan Fund: This fund was left to the College of Medicine early in the school's history as a memorial loan fund to assist in meeting the financial needs of its students. It is administered in accordance with the procedures established for the College of Medicine Loan Fund.

Health Professions Educational Assistance Act: The Health Professions Educational Assistance Act of 1976 extends the act of 1963 through 1980 and provides student loans up to the cost of tuition and $2,500 in one academic year. The loans are based on exceptional financial need and may be repaid in part by service in a shortage area. Interest rates are 5% annually.

The George Graham Hunter Loan Fund: This trust fund, established in 1968, is for the purpose of making loans available to qualified medical students or residents in orthopaedics.

Ronald A. Julian Memorial Fund: This fund was established as a memorial loan fund to assist medical students in financing their education. It is administered in accordance with the procedures established for the College of Medicine Loan Fund.

The Barbara S. Michael Loan Fund: A revolving loan fund established in 1977 for needy and worthy students in the College of Medicine.

The Dr. P. Phillips Foundation Loan: This loan fund was established to assist financially needy students from Orange County who have shown academic achievement.

Maude Halstead Rhodes Loan: This fund was established in 1987 to provide loans to third and fourth year students up to a maximum of $3000 per year.

Stafford Loan Program: The Stafford Loan Program helps students meet the cost of education by allowing them to receive low-interest loans from participating commercial lending institutions such as banks, credit unions, and savings and loan associations. This program authorizes the guarantor, usually the state's Department of Education, to insure the lender for defaulted loans.

Each academic year, students may borrow an amount up to their expected cost of education minus financial aid received from other sources and minus their expected family contribution. The expected family contribution is determined by using a federally approved financial needs test. Graduate or professional students may request loans up to $7,500 an academic year (two semesters). The total Stafford loans graduate students may accumulate may not exceed $54,750 including their undergraduate borrowing.

For first-time borrowers taking out a loan in January 1984 or later, the interest is 8%. Repayment of Stafford Loans begins six to nine months after the student ceases to be enrolled at least halftime. The interest on these loans increases to 10% after four years of repayment. This change was effective July 1, 1988.

Additional information and applications can be obtained from the Office for Student Financial Affairs, S103 Criser Hall, University of Florida, Gainesville, Florida 32611.

Supplemental Loans for Students (SLS): A federal loan that enables a student to borrow up to $4,000 per year. The interest is variable, but the one year maximum is 12%. Repayment of principle starts when the student graduates, withdraws, or enrolls for less than half-time. Interest payments start 60 days after disbursement.

Additional information and applications can be obtained from the Office for Student Financial Affairs, S103 Criser Hall, University of Florida, Gainesville, Florida 32611.

Marie Rosa Valicenti Loan Fund: Established in memory of Mrs. Valicenti by the Carmen Valicenti Trust to provide loans for students from the northern part of Brevard County or Orange County.

Hugh and Mabel Wilford Loan Fund: This trust fund was established in 1970 for the purpose of making loans available to assist worthy and needy students to attend the University of Florida College of Medicine.

This loan fund will be administered in accordance with procedures established for the Health Professions Student Loan Program.

Other Sources: Many students have received financial support from local sources. These may be discovered by inquiries addressed to voluntary health agencies, medical organizations, service clubs, church organizations, or trust departments of banks.

FELLOWSHIPS

Student Research Fellowships: These fellowships are made possible by grants from voluntary health agencies in Florida, pharmaceutical firms, the National Institutes of Health, and other agencies.

Medical student research holds high priority in the College of Medicine with the primary objective being that of involving the inquisitive student in a self-learning experience in medical research.

As an incentive to become involved in research, students are offered an opportunity to apply for fellowship support which is available on a part-time basis during the academic year and on a full-time basis during summer vacations.

These fellowships are available to incoming medical students during the summer prior to their matriculation. The only other time that full time research (10 weeks) is generally available is during the summer between the first and second year of medical school. Fellowships are awarded on a competitive basis with a progress report and continuation application required for each semester. In addition to providing fellowships for research, this program also sponsors a Research Day for medical students to report the findings of their research and will contribute funds (when available) to the travel expenses of medical students who present the results of their research at national conferences.

On the basis of the results of the research projects and their presentation, medical students are eligible for the annual Faculty Research Award, Albert G. King Award, John Harrington Tanous, M.D. Cancer Research Award, and the Alpha Omega Alpha Research Award. Graduating students may also be considered for Graduation with Honors based on research.

LIVING ACCOMMODATIONS

Housing on campus should be arranged through the Office of the Director of Housing, University of Florida, Museum Road at S.W. 13th Street, Gainesville, Florida (904/392-2161). Beaty Towers has four-person suites at $844 per semester per student.

For married students, apartments in Corry, Diamond, University Villages and Tanglewood are available. These are modern two-story buildings of brick construction containing one, two and a few three-bedroom apartments at $192 to $337 per month (all prices subject to change). The 103 units comprising Schucht Memorial Village ($252 per student per month; $212 with roommate) are adjacent to Shands Hospital and priority is given, when possible, to single housestaff and medical students who have clinical responsibilities requiring quick access to the Health Science Center. To secure favorable consideration, application for on-campus housing should be made immediately upon acceptance to the College of Medicine.

Private homes and privately operated rooming houses and apartments provide many accommodations for students. The University's Division of Housing also offers a referral service through the off-campus housing section where current listings are available. These listings are not compiled for mailing since they are subject to constant change, and mutually satisfactory rental arrangements can be made normally only by the student after a personal inspection of facilities and a conference with the landlord. Initial contacts should be made at least 30 days before school begins.

Course descriptions

The following courses comprise the preclinical component of the curriculum for the M.D. degree, and are offered to medical students during the first and second years. Some of the courses are available to graduate students in the university, but the number of students who can be accepted is limited by laboratory facilities and enrollment requires the approval of the course director.

FIRST YEAR

BMS 5015 BASIC CLINICAL SKILLS

2 credits. This course introduces students to patient evaluation, including interview and physical examination. The course is correlated with the courses in gross anatomy, radiology, embryology and microscopic anatomy. Students are taught in small groups and must pass a competency exam on initiating a medical interview and perform a screening physical examination.

BMS 5020 MEDICAL NEUROSCIENCE

5 credits. This course provides an integrated and multidisciplinary approach to the study of central nervous system structure and function. The course includes the study of neuroanatomy, neurochemistry, neuroembryology, neurohistology, and neurophysiology. Sensory and motor system functions are also stressed. The laboratory portion of the course is intensive, allowing students to develop a working knowledge of human brain structure and organization. There is also a strong emphasis on applying basic science information to actual clinical problems.

BMS 5100C MEDICAL HUMAN ANATOMY

8 credits. This course introduces basic principles of the human body primarily in a laboratory setting. Clinical oriented lectures are used to emphasize basic anatomical relationships. Lectures on human embryology are presented also in a systemic format to assist students to learn pertinent norman organ development and morphogenesis. The course materials are integrated with radiologic and microscopic anatomy.

BMS 5110 CELL AND TISSUE BIOLOGY

6 credits. The microscopic structure and function of the cells, tissues and organs of the human is taught. Correlation of structure and function at a cellular level is emphasized in lectures, conferences and laboratories.

BMS 5190 ANATOMY BY DIAGNOSTIC IMAGING

2 credits. The goal is to describe normal human anatomy in three dimensions (frontal, coronal [sagittal] and axial) using imaging modalities available to diagnostic radiologists. The course is oriented to organ systems describing not only the anatomy of the organ but also its vasculature and topographic anatomy. The course includes 10 didactic lectures and a teaching set of films depicting normal anatomy. Slides and video tapes are available for individual, independent viewing.

BMS 5202 MEDICAL ASPECTS OF HUMAN GENETICS

2 credits. Designed to familiarize the student with the medical aspects of human genetics, this course presents both theoretical and clinical information in cytogenetics, population genetics, and molecular genetics together with a review of its application in the diagnosis, management and prevention of genetic diseases.

BMS 5204 BIOCHEMISTRY AND MOLECULAR BIOLOGY OF DISEASE

6 credits. A general biochemistry course is a strongly recommended prerequisite. Lectures and small group discussions are designed to build on the student's basic biochemical knowledge of cellular function. Emphasis is placed on the biochemical and molecular biological basis of pathobiology. Topics include nutrition, physical biochemistry, metabolism and molecular biology.

BMS 5500 PRINCIPLES OF PHYSIOLOGY

6 credits. The basic physiology of the respiratory, cardiovascular, endocrine, renal and gastrointestinal systems is presented. Concepts of physiology are presented with some clinical applications.

BCC 5151 INTRODUCTION TO PSYCHIATRY AND HUMAN BEHAVIOR

4 credits. This course offers an introduction to the biological, psychological and social interactions which underline human behavior in both health and illness. Course teaches students to conduct a psychiatric interview, evaluation, and to become familiar with descriptive and dynamic aspects of common psychiatric syndromes and diagnostic categories. Alcoholism, substance abuse, impaired physicians, human sexuality and an introduction to psychiatric treatment are also presented. Small group teaching is devoted to lecture-demonstrations and patient interviewing.

BCC 5173 COMMUNITY PHYSICIAN PRECEPTORSHIP

3 credits. During this course, students will be assigned to a physician preceptor who practices primary care medicine. Students will spend three weeks on location with the physician on a full-time basis. Students will have the opportunity to utilize their interview and physical examination skills. A detailed diary of the experience will be required.

SECOND YEAR

BMS 5191 INTRODUCTION TO CLINICAL RADIOLOGY

2 credits. Prerequisite: BMS 5190. This course introduces the student to diagnostic imaging in the clinical setting. A short description of radiation physics, risks of radiation and prevention of radiation injury is given. The diagnostic approach to different disease entities is described, emphasizing the importance of sequence of studies and the diagnostic information which can be obtained by different imaging modalities (plain radiographs, contrast studies, ultrasound, radionuclide studies, computed tomography and magnetic resonance imaging). Samples of pathology in different organ systems are discussed. The course includes a 16 hour didactic lecture series and a teaching set of images depicting pathology.

BMS 5300C MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASE

7 credits. This course will provide learning opportunities in the principles of medical microbiology and the essentials of infectious disease. It will cover basic host defense mechanisms and the interaction of pathogens with these host defenses. Bacterial, viral, fungal and parasitic pathogens and the diseases they cause will be considered. Lectures, laboratories, small group discussions and self-instructional programs will be used to present the material

BMS 5404 PHARMACOLOGY

6 credits. This introductory course presents concepts of drug action (drug-receptor interactions, drug absorption, distribution, and elimination), introduces most of

the major classes of drugs, and emphasizes the biochemical and physiological basis for understanding drug action. Groups of drugs considered include anesthetic, autonomic, central nervous system, adrenal, cardiovascular and antimicrobial compounds.

BMS 5600 SYSTEMIC PATHOLOGY AND LABORATORY MEDICINE
9 credits. Prerequisites: Satisfactory completion of the first year of medical school and BMS 5608. Building upon general principles learned in BMS 5608, the student studies in detail the pathology of organ systems. The morphologic, biochemical and biological behavior of various diseases are covered in lecture and amplified by laboratory materials. Functional and clinical implications are discussed, including the appropriate use of the clinical laboratory for diagnosis and therapy.

BMS 5608 GENERAL PATHOLOGY
4 credits. Prerequisite: Satisfactory completion of the first year of medical school. The course introduces second year medical students to basic processes involved in cellular injury and adaptation, inflammation as a reparative and disease causing process, and hemodynamic disorders with emphasis on atherosclerosis, thrombosis and its consequences. The role of the immune system in disease causation and transplantation is presented. Cancer is defined and categorized with a discussion of etiology, pathogenesis and host response. Pathologic alterations in infection are illustrated by relevant clinical examples.

BMS 5630 ONCOLOGY
2 credits. This course is taught in parallel with pathology and provides correlation between treatment of patients with cancer and oncology topics being addressed in pathology.

BMS 5822 SOCIAL AND ETHICAL ISSUES IN MEDICAL PRACTICE
2 credits. This course introduces second year medical students to the major ethical and social issues in medical practice. Students work with techniques to identify particular ethical problems in medicine, and strategies for successfully resolving these problems. The course is organized around small discussion groups which focus on actual and ethically difficult medical cases.

BMS 5823 EPIDEMIOLOGY AND PUBLIC HEALTH
2 credits. This course provides instruction in clinical epidemiology, preventive medicine and public health. The critical appraisal of the medical literature is emphasized.

BMS 5830 PHYSICAL DIAGNOSIS
2 credits. Students are introduced to basic components of the physical examination with emphasis on normal findings.

BMS 5831 CLINICAL DIAGNOSIS (Introduction to Clinical Medicine)
6 credits. Prerequisite: BMS 5830. Conducted by the Department of Medicine, with participation by the Departments of Neurology, Orthopaedics, Ophthalmology and Pediatrics. Students develop medical interviewing and physical examination skills; learn methods of collecting, organizing and communicating data; develop an understanding of the genesis of signs and symptoms; and are introduced to the techniques of problem-solving in physical diagnosis.

THIRD YEAR

During the third year, students rotate through eight clinical clerkships. The clerkships in medicine surgery, obstetrics and gynecology, and pediatrics are eight weeks in length; psychiatry, seven weeks; community health and family medicine, six weeks; neurology, two weeks; and anesthesiology, one week. During the clerkships the medical student participates as a member of the health care team in the care of hospitalized and ambulatory patients. Teaching occurs in various settings including clinical rounds, conferences and lectures as well as at the bedside or during surgery. Students will spend 5-9 weeks participating in clerkships at UFHSC-Jacksonville. Housing will be provided during this period of time.

BCC 5100 ANESTHESIOLOGY CLERKSHIP

1 credit. One week. Intensive lectures and laboratory instruction in life support systems, including practice in the skills necessary to approach and treat the patient suffering from acute cardiopulmonary collapse of varying etiology.

BCC 5110 MEDICAL CLERKSHIP 1

8 credits. Eight weeks. Active participation in the care of ward and clinic patients is provided under supervision. Close tutorial relationship with staff in lectures, conferences, and teaching rounds provides a rich learning experience.

BCC 5120 NEUROLOGY CLERKSHIP

2 credits. Two weeks. Students participate on the inpatient and outpatient services of the neurology department at Shands Hospital, VA Medical Center, and University Hospital at Jacksonville. The student learns how to evaluate patients by assuming ongoing responsibility for their care while studying various physiologic, chemical and pathologic aspects of neural function.

BCC 5130 OBSTETRICAL AND GYNECOLOGICAL CLERKSHIP

8 credits. Eight weeks. Participation in the outpatient and inpatient medical and surgical care of women at Shands Hospital and University Hospital in Jacksonville. Lectures, seminars and active involvement provide exposure to obstetrics, gynecology, oncology and reproductive endocrinology. Focus is on primary as well as intensive care.

BCC 5140 PEDIATRIC CLERKSHIP

8 credits. Eight weeks. Students actively participate in inpatient and outpatient medical and surgical management of infants and children. Teaching occurs in the pediatric clinic and emergency room at Shands Hospital and the University Hospital at Jacksonville. Focus is upon diagnosis, management and consequences of illness in children and among their families.

BCC 5150 PSYCHIATRIC CLERKSHIP

7 credits. Seven weeks. Observation and supervised treatment of psychiatric patients in the Shands Hospital, VA Medical Center, and University Medical Center at Jacksonville inpatient, outpatient, and consultation services. Weekly didactic seminars, conferences and individual instruction are given in the application of this material to the practice of medicine.

BCC 5160 SURGICAL CLERKSHIP

8 credits. Eight weeks. Students participate in the care of surgical patients in the ward and in the operating room at Shands Hospital and VA Medical Center. Instruction in the care of the surgical patient is provided by a series of daily seminars and lectures.

BCC 5170 COMMUNITY HEALTH & FAMILY MEDICINE
6 credits. Six weeks. Students are provided learning experiences which foster development of the knowledge, attitudes and approaches to health problems in the primary care setting. The emphasis will be on health promotion, disease prevention and management of health problems in outpatient settings. Students will spend 4 weeks in a family practice center in either Gainesville or Jacksonville and 2 weeks in either Old Town, Cross City or Tallahassee. Housing is furnished for rotations in Jacksonville and Tallahassee.

FOURTH YEAR

The fourth year is divided into 11 four week long units (of 4 credit hours each). During the year, students plan their own curriculum which must be approved by their advisor and the fourth year coordinator prior to the beginning of the academic year. Students are required to take four units: advanced medicine clerkship, advanced pharmacology, a surgery selective and an ambulatory medicine selective. The remaining 7 units consist of elective courses and clerkships offered by the basic science and clinical departments.

BMS 5465 ADVANCED PHARMACOLOGY
4 credits. Lectures and conferences. Fundamentals of drug action are studied with emphasis on cardiovascular, neurological, and endocrine systems. Clinical faculty participate in the teaching of basic aspects of clinical pharmacology.

BCC 5111 MEDICAL CLERKSHIP 2
4 credits. 4 weeks. Increased level of patient care responsibility compared to the third year medicine clerkship. Students serve as the primary physician under resident and faculty supervision. Students are responsible for the performance of simpler diagnostic procedures. Self-education is stressed, but students are encouraged to attend major departmental conferences.

BCC 5161 SURGICAL SELECTIVE
4 credits. 4 weeks. Students further develop skill in pre-operative evaluation, surgery, and postoperative care and follow-up. Twice weekly patient-oriented seminars are provided by faculty. The student will be an active member of the surgical team.

AMBULATORY CARE SELECTIVE
4 credits. Students must take a 4 week experience in primary care medicine from an approved list of electives. These clerkships provide the students with additional experience in the care of ambulatory patients.

GMS 5930 ELECTED TOPICS I
3-13 credits. Offered by all medical science and clinical departments of the college as an opportunity for concentrated work in a field of particular interest to the student. Individual response, preceptorship, or clinical clerkship in the college or in another medical center in this country or abroad may be elected.

GMS 5931 ELECTED TOPICS II
3-13 credits. Same as GMS 5930.

GMS 5932 ELECTED TOPICS III
8 credits. Same as 5930.

GMS 5933 ELECTED TOPICS IV
8 credits. Same as GMS 5930.

GMS 5934 ELECTED TOPICS V
4 credits. Same as GMS 5930.

GMS 5935 ELECTED TOPICS VI
3-13 credits. Same as GMS 5930.

GMS 5936 ELECTED TOPICS VII
3-13 credits. Same as GMS 5930.

GMS 5937 ELECTED TOPICS VIII
3-13 credits. Same as GMS 5930.

GMS 5938 ELECTED TOPICS IX
3-13 credits. Same as GMS 5930.

GRADUATE COURSES IN THE MEDICAL SCIENCES

Programs leading to the Ph.D. and M.S. degrees in the medical sciences (with a major in anatomy and cell biology, biochemistry and molecular biology, immunology and medical microbiology, neuroscience, pathology and laboratory medicine, pharmacology and therapeutics, or physiology) are offered by the College of Medicine.

In addition, the M.S. and Ph.D. degrees in biochemistry are offered by the Department of Biochemistry and Molecular Biology. Training in these scientific disciplines is planned to give experience in research and teaching, rather than in clinical practice for which the M.D. degree program is designed.

Although no graduate major may be completed without adequate course work at the 6000 level or higher, the 5000 level courses listed for each individual department also are available for graduate credit as part of the candidate's major.

The following general courses are offered by each participating department. Most of these courses, as well as others listed below, are also available to qualified graduate students from other divisions of the university.

GMS 6905 RESEARCH IN MEDICAL SCIENCES
1 to 10 credits. May be repeated for credit. Supervised research other than that toward fulfillment of the thesis or dissertation research in the Departments of Anatomy and Cell Biology, Biochemistry and Molecular Biology, Immunology and Medical Microbiology, Neuroscience, Pathology, Pharmacology and Therapeutics, and Physiology.

GMS 6910 INTRODUCTION TO SUPERVISED RESEARCH
1 to 5 credits. Credit not applicable toward degrees. May be repeated up to a total of 5 credits.

GMS 6940 INTRODUCTION TO SUPERVISED TEACHING
1 to 5 credits. Credit not applicable toward degrees. May be repeated up to a total of 5 credits.

GMS 6971 MASTER'S RESEARCH
1 to 15 credits. Anatomy and Cell Biology, Biochemistry and Molecular Biology, Immunology and Medical Microbiology, Neuroscience, Pathology, Pharmacology and Therapeutics, and Physiology.

GMS 7979 ADVANCED RESEARCH
1 to 9 credits. Anatomy and Cell Biology, Biochemistry and Molecular Biology, Immunology and Medical Microbiology, Neuroscience, Pathology, Pharmacology and Therapeutics, and Physiology.

GMS 7980 DOCTORAL RESEARCH
1 to 15 credits. Anatomy and Cell Biology, Biochemistry and Molecular Biology, Immunology and Medical Microbiology, Neuroscience, Pathology, Pharmacology and Therapeutics, and Physiology.

ANATOMY AND CELL BIOLOGY

The department offers a program leading to the Ph.D. in medical sciences. The graduate training specializations within the department are cell developmental biology.

The program prepares the student for the Doctor of Philosophy degree in medical sciences. Research interests in the department include several different areas of cell biology, developmental biology, reproductive biology and vertebrate morphology.

Applicants should have a strong background in biology, chemistry, or physics and have taken undergraduate courses in organic chemistry, calculus, physics, cell biology, and biochemistry. Deficiencies may be made up during the first year of graduate study.

BMS 5100C MEDICAL HUMAN ANATOMY
8 credits. This course introduces basic principles of the human body primarily in a laboratory setting. Clinical oriented lectures are used to emphasize basic anatomical relationships. Lectures on human embryology are presented also in a systemic format to assist students to learn pertinent normal organ development and morphogenesis. The course materials are integrated with radiologic and microscopic anatomy.

BMS 5110 CELL AND TISSUE BIOLOGY
6 credits. The microscopic structure and function of the cells, tissues and organs of the human is taught. Correlation of structure and function at a cellular level is emphasized in lectures, conferences and laboratories.

GMS 5613C APPLIED GROSS ANATOMY
4 credits. A continuation in depth of GMS 5600C with emphasis on applied and correlative aspects.

GMS 5621 CELL AND TISSUE BIOLOGY
4 credits. Prerequisite: BMS 5110 or approval of staff. Fundamental mechanisms of cell functions, specializations, and interactions that account for the organization and activities of basic tissues.

GMS 5641 CELL DIFFERENTIATION, MORPHOGENESIS AND ONCOGENESIS
4 credits. Prerequisite: Comprehensive courses in developmental biology (or embryology), cell biology and biochemistry. Corequisite: molecular biology or consent of instructor. Course examines evidence for current models of cell differentiation, proliferation, shape change and motility, especially as the models relate to morphogenesis, pattern formation and oncogenesis. Format will consist of lectures prepared by instructors and students, followed by discussion. Readings will derive from original research literature. Taught in spring semester of odd-numbered years.

GMS 6609 ADVANCED GROSS ANATOMY
2 to 4 credits; maximum 6. Prerequisite: Permission of the instructor. Regional and specialized anatomy of the human body taught by laboratory dissection, conferences and demonstrations.

GMS 6690 CELL BIOLOGY AND ANATOMY SEMINAR
1 to 2 credits; no maximum. Faculty-students discussions of research papers and topics.

GMS 6631 ADVANCED MICROSCOPIC ANATOMY
4 credits; maximum 6. Prerequisite: BMS 5621 (Cell and Tissue Biology) or equivalent course; approval of staff. The microscopic anatomy of mammalian (mainly human) cells, tissues, and organs is studied in detail. Structure-function relationships and experimental approaches are stressed. Opportunity for work in histology laboratory if desired by student. Taught in spring semester of even-numbered years.

GMS 6611 RESEARCH METHODS IN CELL BIOLOGY AND ANATOMY
1 to 4 credits; maximum 6. Research under supervision of faculty members.

GMS 6691 SPECIAL TOPICS IN CELL BIOLOGY AND ANATOMY
1 to 4 credits; maximum 10. Readings in recent research literature of anatomy and/or applied disciplines including cell developmental and reproductive biology.

GMS 6182C TECHNIQUES IN ELECTRON MICROSCOPY
2 to 4 credits. Prerequisites: Courses and/or experience in microscopic anatomy and cell biology. Theory and practice of electron microscope techniques including tissue preparation, sectioning, use of the electron microscope, and photography.

GMS 6632 HISTOCHEMICAL AND CYTOCHEMICAL TECHNIQUES
2 credits. Prerequisite: GMS 5110C and staff approval. The theory and use of histochemical and cytochemical techniques will be presented with lectures and laboratory exercises.

GMS 6641 FERTILIZATION AND GAMETOGENESIS
3 credits. Prerequisites: BCH 4024 or equivalent; a general course in developmental biology or embryology. Supervised study of publications in specific areas of reproductive biology, including oogenesis, spermatogenesis and fertilization. Weekly conferences, reports, lectures.

GMS 5670 INDIVIDUAL STUDY
1 to 3 credits; maximum 10. Supervised study in areas not covered by other graduate courses.

GMS 6971 RESEARCH FOR MASTER'S THESIS
1 to 15 credits. S/U.

GMS 7979 ADVANCED RESEARCH
1 to 9 credits. Research for doctoral students before admissions to candidacy. Designed for students with a master's degree in the field of study or for students who have been accepted for a doctoral program. Not open to students who have been admitted to candidacy. S/U.

GMS 7980 RESEARCH FOR DOCTORAL DISSERTATION
1 to 15 credits. S/U.

BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology offers the Doctor of Philosophy degree in biochemistry with specialization in physical biochemistry, molecular biology and medical biochemistry. The department, as one of the basic medical sciences, also offers these subjects as part of the program leading to the M.S. and Ph.D. in medical sciences.

Specific areas of study include structure and function of cellular and nuclear membranes in mammalian cells; transport of molecules into the cell; regulation of cell division and gene expression; assembly and regulation of the cytoskeleton; biochemistry of differentiation; biochemical genetics; molecular biology of nucleic acids; replication and repair in bacterial and eukaryotic cells; biosynthesis and structure of nucleic acids, proteins, polysaccharide, lipids, lipoprotein, isoprenoid metabolism; physical biochemistry of nucleic acids and proteins; site-directed mutagenesis mechanism of enzyme action and molecular evolution.

New graduate students should have adequate training in general, organic, quantitative and physical chemistry as well as in physics, biology and calculus. Minor deficiencies may be made up immediately after entering Graduate School.

Doctoral candidates are required to take a core of biochemistry courses which include BCH 6740, 6156, 6206, 6415, 6876, and 6936. Depending upon interests and background of the student, additional courses are recommended from the following list: BCH 6296, 6746, 7410, and 7257. The curriculum for doctoral candidates may also include advanced chemistry, physiology, microbiology and genetic courses.

BCH 6740 ADVANCED PHYSICAL BIOCHEMISTRY
3 credits. Prerequisites: General biochemistry and calculus or consent of instructor. Corequisite: Physical chemistry. Physical chemistry of biological molecules and the techniques for their study. Constitutes one of three core biochemistry courses.

BCH 6156C RESEARCH METHODS IN BIOCHEMISTRY
1-4 credits. Corequisites: BCH 6740, 6206, 6415. Only by special arrangement. Biochemical research in which the student refines his research techniques in physical biochemistry, intermediary metabolism, molecular biology and cell biology under supervision of a staff member. May be repeated for a maximum of 8 credits.

BCH 6206 ADVANCED METABOLISM
3 credits. Prerequisites: General biochemistry or consent of instructor. The reactions of intermediary metabolism with emphasis upon their integration, mechanism and control. Constitutes one of the three core biochemistry courses.

BCH 6296 ADVANCED TOPICS IN METABOLIC CONTROL
1 credit. Prerequisites: BCH 6740, 6206, 6415, or consent of instructor. Study of the thermodynamic, allosteric, endocrinologic and genetic control of metabolic reactions.

BCH 6415 ADVANCED MOLECULAR AND CELL BIOLOGY
3 credits. Prerequisite: General biochemistry or consent of instructor. An advanced course combining the molecular biology of pro- and eukaryotes with cell biology. Topics will include DNA replication, chromosome organization; RNA and protein synthesis; as well as the

biochemistry of cell organelles. Constitutes one of the three core biochemistry courses.

BCH 6746 ADVANCED TOPICS IN PHYSICAL BIOCHEMISTRY
1 credit. Prerequisites: BCH 6740, 6206, 6415, or consent of instructor. Study of the physical chemistry of proteins, nucleic acids, lipids, enzymes, as well as their modes of interaction.

BCH 6876 RECENT ADVANCES IN BIOCHEMISTRY
1 credit. Prerequisite: BCH 6740 or equivalent. Areas of biochemistry and molecular biology, selected by the faculty, discussed critically and in depth. Emphasis on current controversy and theory, data interpretations, and scientific writing. Classes held informally in small groups during each semester, involving all biochemistry faculty on a rotating basis. S/U.

BCH 6910 SUPERVISED RESEARCH
1-5 credits; maximum 12. Prerequisite: Consent of instructor. Nonthesis, individually supervised research. May be repeated for a maximum of 12 credits. S/U.

BCH 6936 BIOCHEMISTRY SEMINAR
1 credit. Required of graduate students in biochemistry; open to others by special arrangement. Research reports and discussions of current research literature given by the departmental staff, invited speakers and graduate students.

BCH 6940 SUPERVISED TEACHING
1-5 credits; maximum 12. Prerequisite: Consent of instructor. Teaching and conducting of discussions under direct supervision. May be repeated for a maximum of 12 credits. S/U.

BCH 6971 RESEARCH FOR MASTER'S THESIS
1 to 15 credits.

BCH 7410 ADVANCED TOPICS IN MOLECULAR BIOLOGY
1 credit. Prerequisites: BCH 6740, 6206, 6415, or consent of instructor. The biochemical basis of molecular biology and genetics with emphasis the mode of control surrounding the replication and expression of the pro- and eukaryotic genome.

BCH 7257 ADVANCED TOPICS IN CELL BIOLOGY
1 credit. Prerequisite: BCH 6415 or equivalent. Biochemistry of selected cell organelles with emphasis on compartmentation and integrated cellular function.

BCH 7515 ENZYME KINETICS AND MECHANISMS
2 credits. Prerequisite: Advanced general course in biochemistry such as BCH 6740, 6206 or consent of instructor. The study of enzyme reaction mechanisms using kinetics, spectroscopy, protein crystallography and new emerging techniques. Alternates with BMS 6203 spring semester.

BCH 7627 BIOCHEMISTRY OF DISEASE
2 credits. Prerequisite: General courses in biochemistry. The molecular basis of human pathobiology. Biochemical mechanisms underlying selected disease states.

BCH 7979 ADVANCED RESEARCH
1 to 9 credits. S/U.

BCH 7980 RESEARCH FOR DOCTORAL DISSERTATION
1 to 15 credits. S/U.

BMS 6203 CELL MEMBRANES: MOLECULAR BIOLOGY AND FUNCTION
2 credits. Prerequisite: BCH 4024, BCH 4313 and MCB 3020 or equivalents and consent of instructor. Composition, molecular organization and assembly of biological membranes in both eukaryotes and prokaryote. Alternates with BCH 7515, spring semester.

IMMUNOLOGY AND MEDICAL MICROBIOLOGY

The Department of Immunology and Medical Microbiology offers a program leading to to the Doctor of Philosophy degree in medical sciences. Areas of specialization include molecular genetics, virology, cellular and humoral immunology, parasitology, bacteriology and molecular pathogenesis.

The undergraduate preparation for graduate study should be wide in scope and should include general biology, physics, chemistry (two to three years, including organic and physical chemistry), and preferably statistics, calculus, biochemistry, genetics and bacteriology. A bachelor's degree in bacteriology or microbiology is not required.

In graduate school, the student will first obtain a general background in microbiology as preparation for research and teaching. The graduate student is given the opportunity to participate in research in the first year via rotations in three laboratory groups. The remaining course work should be arranged according to the student's interest and competence.

Through individual planning of coursework, research and teaching, the graduate student is offered an educational atmosphere to help develop skills and gain intellectual independence and initiative.

GMS 6121 INFECTIOUS DISEASES
3 credits. Prerequisite: BMS 6140, GMS 6152, instructor permission. Survey of medical microbiology directed at understanding infectious disease in terms of molecular pathogenesis, bacterial physiology and genetics.

GMS 6140 PRINCIPLES OF IMMUNOLOGY
3-5 credits, maximum 5. A comprehensive description of molecular and cellular mechanisms involved in development of immunity and disease resistance. Basic concepts in immunology presented through description of experimental results. Emphasis on developing ability to evaluate and interpret experimental data.

GMS 6181 SPECIAL TOPICS IN MICROBIOLOGY
1-6 credits; maximum 18.

GMS 6107 VIROLOGY
3 credits. Prerequisite: working knowledge of molecular biology. Molecular biologic and genetic aspects of virus structure, gene expression, replication and interaction with the host cell. Emphasis on DNA and RNA animal viruses.

GMS 6152 MOLECULAR GENETICS
3-5 credits; maximum 5. Molecular processes of genetic transmission: DNA synthesis, transcription and translation; recombination and transposition; RNA structure and processing; regulation of gene expression. Genetic mechanisms of both prokaryotic and eukaryotic organisms. Primary research literature.

GMS 6190 SEMINAR
1 credit; maximum 12. Presentations by invited speakers. S/U.

GMS 7191 RESEARCH CONFERENCE
1 credit; maximum 12. Critical discussion and appraisal of research programs of the faculty and students of the department. S/U.

GMS 7192 JOURNAL COLLOQUY
1 credit. Critical presentations and discussion of recent original articles in the microbiological literature. S/U.

NEUROSCIENCE

The department offers programs leading to the Ph.D. degree in medical sciences with specialization on the basic neural and neurobehavioral sciences. While there are no fixed entrance prerequisites, prospective students should obtain a reasonable undergraduate background in biochemistry, physiology, statistics and behavioral science. Students admitted with deficiencies in these areas will be required to obtain remedial training. All students will receive core training in neuroanatomy, neurophysiology, neurobehavioral science, neurochemistry, neuroendocrinology, neurohistology, and neuropharmacology. The remainder of the program will consist of laboratory research and advanced courses and seminars from this and other departments.

BMS 6510 NEUROPHYSIOLOGY
4 credits. Cellular and membrane bases of electrical potentials, energy transduction and information transfer in neurons, gila and special sense organs.

BMS 6512 A SURVEY OF SENSORY SYSTEMS
4 credits. Prerequisite PCB 4745C or BMS 6510 or APB 3203 or GMS 7760. A group of specialists provide a survey of theories and experimental data on human and subhuman sensory reception and encoding. Auditory, visual, cutaneous and chemical senses are included.

BMS 6514 SEMINAR IN SENSORY PROCESSES
1 credit. Topics of current interest in various areas of the sensory specialties are discussed within the seminar framework. S/U.

BMS 7706C MEDICAL NEUROSCIENCE
4 credits. a comprehensive overview of human neuroanatomy from the subcellular to the gross tissue level. Lectures will also cover neurochemistry, neuropharmacology, neurophysiology, neuroendocrinology and neurobehavioral biology. Clinical correlations and applications.

GMS 7751C CENTRAL AUDITORY FUNCTION AND DYSFUNCTION
3 to 5 credits. Prerequisite: BMS 7706C or consent of instructor. Overview of normal brainstem and cortical function provides background for discussion of physiological, audiometric, and neurophysiological studies of central auditory impairments.

GMS 7798C RECENT ADVANCES IN NEUROSCIENCE
1 to 2 credits; maximum 16. Prerequisite: Consent of instructor. Seminar and group discussions of recent

advances in one or more areas of neuroscience. These areas include neuroanatomy, neurophysiology, neurochemistry, neuropharmacology, neuroendocrinology and neurobehavioral biology. May be repeated up to a maximum of 16 credits.

GMS 7750 COMPARATIVE NEUROANATOMY AND NEUROPHYSIOLOGY
1 to 3 credits. Prerequisite: BMS 7706C or equivalent. The phylogenetic development of the central nervous system of vertebrate animals considered from the behavioral, anatomical and electro-physiological points of view. S/U.

GMS 6703 PAIN AND SOMESTHESIS
3 credits. Current research on central nervous system coding and information transfer, using somesthesis as a model with particular emphasis on pain.

GMS 6732 NEUROENDOCRINOLOGY
2 to 4 credits. Prerequisite: Permission of instructor. Neural regulations of endocrine systems in vertebrate animals. Correlative study of neuroanatomical, neurophysiological and neurochemical aspects of endocrine control.

GMS 6735 NEUROPHARMACOLOGY
3 credits. Prerequisite: Background in biochemistry and basic neuroscience or consent of instructor. The identification, synthesis, metabolism, and pharmacology of neurotransmitters and their receptors, to include biogenic amines, neuropeptides, and other nervous system transmitters.

GMS 7720 SPINAL CORD CIRCUITIES AND MOTOR FUNCTION
3 credits. Discussion to focus on the segmental and suprasegmental regulation of motor activity in the normal spinal cord, how these mechanisms are affected by spinal cord trauma, and the hypothetical framework for seeking ways to restore or improve motor function in the injured spinal cord. Emphasis to be given from a combined anatomical and physiological perspective to topics such as: muscle spindle system, spasticity, midbrain and spinal pattern generators, recovery of locomotion in lower vertebrates, neuroplasticity, cell biology of axonal regeneration and neural tissue transplantation.

GMS 7730 FUNCTIONAL NEUROCHEMISTRY
1-3 credits; maximum 6. Prerequisite: BMS 4021, GMS 7731, 7733 or consent of instructor. A seminar course devoted to detailed analysis of selected topics of current interest in the relations of neurochemical processes to nervous system function.

GMS 7731 MOLECULAR NEUROBIOLOGY
4 credits. Prerequisite: Biochemistry. A general introduction and overview of modern neurochemistry, including a brief introduction of neuroendocrinology and neuropharmacology. Neural cell biology and metabolism will be discussed with a particular emphasis on the relationships of molecular mechanisms to neural function.

GMS 7733 CELLULAR AND MOLECULAR NEUROBIOLOGY
4 credits. Cellular and subcellular structure of nervous tissue, development of the nervous system and factors involved in its differentiation will be discussed. Nervous system biochemistry including metabolism and function of neurotransmitters; axoplasmic transport; degeneration and regeneration; and trophic functions of nervous tissue will also be discussed

GMS 7740 NEUROSCIENCE SEMINAR
1 credit; maximum 12. Prerequisite: permission of instructor. Reading and discussion of current topics in neuroscience. May be repeated with change in content up to a maximum of 12 credits. S/U.

GMS 7741 SPECIAL TOPICS IN NEUROSCIENCE
1 to 4 credits; maximum 12. Prerequisite: Permission of instructor. Intensive reading and lectures in specialized fields of neuroscience and allied disciplines. May be repeated with change in content up to a maximum of 12 credits. S/U.

GMS 7742 RESEARCH METHODS ON NEUROSCIENCE
1 to 7 credits; maximum 12. Prerequisite: Permission of instructor. Research techniques in neurohistology, neurophysiology, neuroendocrinology, neurochemistry, neuropharmacology, neurobehavioral science, experimental neurology, neuroscience instrumentation or electron microscopy under supervision of staff member. May be repeated with change of content up to a maximum of 12 credits.

GMS 7743 DEVELOPMENTAL NEUROBIOLOGY
3 credits. Seminar on the neuroanatomical and functional development of the nervous system. Includes discussion of mechanisms of embryonic neurogenesis, behavioral embryology, and current research in neuroembryology.

GMS 7750 COMPARATIVE NEUROANATOMY
2-3 credits. Lecture and laboratory course concerning general principles of vertebrate neuroanatomy and brain-spinal cord organization. Mammalian neuroanatomy stressed.

GMS 7760 SENSORY SYSTEMS NEUROBIOLOGY
4 to 6 credits. Lecture course concerned with the neurobiology of vision, somesthesis and audition.

PATHOLOGY AND LABORATORY MEDICINE

The Department of Pathology and Laboratory Medicine, College of Medicine, in association with the Department of Comparative and Experimental Pathology, College of Veterinary Medicine, offers a program leading to the Doctor of Philosophy degree in medical sciences, specializing in immunology and molecular pathology.

Students can elect to carry out their dissertation research in either the Department of Pathology and Laboratory Medicine or the Department of Comparative and Experimental Pathology in the College of Veterinary Medicine under the direction of a faculty member with a graduate faculty appointment. Areas of research within this program include cellular and molecular immunology, immunogenetics, immunochemistry, immunopathology, immunology of infectious diseases, tumor biology and virology, membrane biochemistry, molecular biology and comparative and nutritional pathology.

The Department of Pathology and Laboratory Medicine also offers a program leading to the Master of Science degree in medical sciences, specializing in clinical chemistry. The program in experimental pathology and immunology emphasizes basic research while the program in clinical chemistry emphasizes laboratory training of management and supervision of clinical laboratories. Careers in pathology offer a diversity of opportunities: service in diagnostic laboratories, basic research in immunology, pathology or genetic engineering, and teaching.

Graduate students entering the immunology and molecular pathology program should have adequate undergraduate training in chemistry, biology, physics and mathematics, with special emphasis on physiological, developmental and cellular biology. Flexibility in the graduate program of the Departments of Pathology and Laboratory Medicine and Comparative and Experimental Pathology in the College of Veterinary Medicine permits the student's course curriculum to be arranged according to his/her specific interests and needs. A blending of basic research with clinical application provides a unique educational atmosphere for the student to gain intellectual independence while developing basic as well as research skills.

Program in Immunology and Molecular Pathology

BMS 6203 CELL MEMBRANES: MOLECULAR BIOLOGY AND FUNCTION
2 credits. Prerequisite: BCH 4203, 4313, and MCB 3020 or equivalents and consent of instructor. Composition, molecular organization, and assembly of biological membranes in both eukaryotes and prokaryote. Alternates with BCH 7515 spring semester.

GMS 6140 PRINCIPLES OF IMMUNOLOGY
3 to 5 credits, maximum 5. A comprehensive description of molecular and cellular mechanisms involved in development of immunity and disease resistance. Basic concepts in immunology presented through descriptions of experimental results. Emphasis on developing ability to evaluate and interpret experimental data.

GMS 6380 SPECIAL SUBJECTS IN SYSTEMIC PATHOLOGY
1 to 3 credits. Prerequisite: Staff approval. Pathological processes affecting specific organs and organ systems.

GMS 6300C MOLECULAR GENETIC AND CELLULAR BASIS OF DISEASE
3 credits. An introductory pathology course for graduate and advanced undergraduate students interested in pathological processes affecting specific organ systems and tissues. Emphasis is on understanding normal cell biology to appreciate the basis of disease and host responses to injury.

GMS 6390 SEMINARS IN PATHOLOGY
1 credit. Required of graduate students in pathology; open to others by permission of the department. Current research literature and research reports by graduate students, pathology staff, and invited students.

GMS 6381 SPECIAL TOPICS IN PATHOLOGY
1 to 4 credits; maximum of 12. Prerequisite: Staff approval. Conferences and supervised laboratory work. Topics selected to meet each student's need.

GMS 6382 ADVANCED TOPICS IN IMMUNOLOGY
3 to 6 credits. Prerequisite: GMS 6140. In-depth critical analysis and discussion of contemporary topics in immunology to obtain a comprehensive understanding of the development of current immunological concepts. Evaluation of the most recently published research literature. Seminars and discussions with invited speakers.

GMS 6331 EXPERIMENTAL TUMOR BIOLOGY
2 credits. Prerequisite: BMS 6630 or consent of instructor. Development of laboratory skills and techniques used in study of various phenomena in tumor biology. Students will work in direct association with members of the BMS 6630 teaching faculty.

BMS 6332 ADVANCED TOPICS IN CANCER RESEARCH
3 credits. Prerequisites: BMS 5603 or BMS 5180, BMS 6352, consent of instructor. Analysis and discussion of contemporary topics in molecular mechanisms of oncogenesis to obtain a comprehensive understanding of the development of current concepts. Critical evaluation of the most recent research literature and relevant grant proposal.

GMS 6333 MAMMALIAN GENETICS AND INHERITANCE OF DISEASE SUSCEPTIBILITY
3 credits. Basic principles of genetics in mammals including man is covered. The inheritance of disease susceptibility are discussed with detailed examples and relevance to current medical knowledge.

GMS 6341 IMMUNOPATHOLOGY
2 credits. Abnormalities and diseases having immunological bases are studied.

GMS 6642L EXPERIMENTAL IMMUNOLOGY
2 credits. Prerequisite: Consent of instructor. Corequisite: GMS 6140. Project oriented. Laboratory skills and techniques in immunobiology developed. Each student works in close association with a faculty member.

GMS 6345 PATHOBIOLOGY OF CELLULAR MEMBRANES
2 credits. Prerequisite: BMS 6203. Discussion of structural and functional changes of membranes involved in disease states.

BMS 6646 IMMUNOLOGY AND MOLECULAR PATHOLOGY
2 to 16 credits; maximum of 16. Prerequisites: BMS 6314, BMS 6603 and consent of instructor. Individual investigative projects in experimental pathology, immunology, membrane biochemistry, tumor biology, molecular genetics and engineering, hybridoma research, immunity of infectious diseases, and electron microscopy. Participation in all phases of experimental

pathology and immunology. Laboratory training in methodology and data interpretation of basic research. Students specializing in experimental pathology and immunology must spend three semesters on this rotation.

GMS 6347 ADVANCED METHODS IN IMMUNOLOGY
2 credits. Prerequisite: Consent of instructor. Corequisite: BMS 6314. A laboratory course to gain practical experience with methods used in immunology research today. Cell separation and identification techniques, isolation and analysis of protein structure, electrophoretic and chromatographic isolation procedures, hybridoma production and monoclonal antibody screening procedures, and genetic engineering.

Program in Clinical Chemistry

GMS 6312 CLINICAL CHEMISTRY AND TOXICOLOGY
4 credits. A comprehensive review of chemical methods applied to the diagnosis of disease. Topics to be covered include analytical instrumentation and methodology, clinical interpretation of laboratory data statistical methods in laboratory medicine and quality control, and certain aspects of clinical laboratory certification and management.

GMS 6313 CLINICAL CHEMISTRY AND TOXICOLOGY: A ROTATION
2 to 20 credits; maximum of 20. Prerequisite: BMS 6612. Participation in all phases of practical clinical chemistry and toxicology. Chemical methodology, clinical interpretation and significance of laboratory measurements used in diagnosing diseases. Individual investigative project in clinical chemistry and toxicology. Pathology graduate students specializing in clinical chemistry must spend three terms on this rotation.

BMS 6623 SEMINARS IN CLINICAL CHEMISTRY
1 credit. Prerequisite: Consent of instructor. Required of graduate students in clinical chemistry; open to others by permission of staff. Reports and discussions of current research and clinical literature presented by clinical chemistry staff, invited speakers and graduate students.

GMS 6349 CLINICAL IMMUNOLOGY: A ROTATION
2 to 12 credits; maximum of 12. Prerequisite: Consent of instructor. Corequisite: BMS 6314. Participation in all phases of practical clinical immunology. Laboratory training in methodology, clinical interpretation and significance of clinical immunological, immunopathological and histocompatibility testing. Application of concepts to clinical laboratory management. Individual investigative projects in clinical immunology and immunogenetics. Students specializing in clinical immunology must spend three semesters on this rotation.

GMS 6348 CLINICAL VIROLOGY: A ROTATION
2 to 12 credits; maximum of 12. Prerequisite: Consent of instructor. Participation in all phases of practical virology. Laboratory training in methodology, clinical interpretation and significance of clinical virology, with emphasis on diagnostic procedures. Individual investigative projects in clinical virology. Students specializing in clinical virology must spend three consecutive semesters on this rotation.

GMS 5304 MECHANISMS OF DISEASE
1-3 credits; 3 maximum. A multidisciplinary approach to understanding disease and its prevention will be presented coordinating molecular, structural and functional alterations with emphasis on inflammation and on microbial, toxicological and ischemia injury.

PHARMACOLOGY AND THERAPEUTICS

The Department of Pharmacology and Therapeutics offers a program leading to the degree of Doctor of Philosophy in the medical sciences with specialization in pharmacology.

The general research focus of the department is mechanistic, at the cellular and molecular levels. Specific areas of research include receptor and membrane pharmacology; autonomic, renal, developmental, endocrine, gastrointestinal and neuropharmacology; teratology; fluid secretion and carbonic anhydrase inhibition; cancer chemotherapy and carcinogenesis; physical chemistry and enzymes; opiods peptides; drug metabolism; and environmental and marine toxicology.

Applicants should present undergraduate course credits in chemistry, elementary physics and biology, and mathematics through calculus. Otherwise, well-qualified students with certain deficiencies in preparation will be allowed to make these up during the first year of graduate study. In addition to elementary and advanced study in pharmacology, candidates will pursue courses in biochemistry, physiology, and other medical sciences as determined by consultation with their advisory committees.

BMS 5465 ADVANCED MEDICAL PHARMACOLOGY

4 credits. Lectures and conferences. Fundamentals of drug action are studied with emphasis on cardiovascular, neurological and endocrine systems. Clinical faculty participate in the teaching of basic aspects of clinical pharmacology.

GMS 6500 INTRODUCTION TO PHARMACOLOGY

5 credits. Prerequisite: Elementary courses in biochemistry and physiology. Overview of the entire field of pharmacology as the study of the interactions between living systems and foreign chemicals. Intended to prepare majors for advanced courses or to familiarize non-majors with the area.

GMS 6520 AUTONOMIC AND CELLULAR PHARMACOLOGY

2 credits. Prerequisite: GMS 6500. A biochemical approach to the actions of drugs on the autonomic nervous system, receptor coupling mechanisms, modulation of neurotransmitter release and immune system of pharmacology.

GMS 6530 RENAL AND ENDOCRINE PHARMACOLOGY

2 credits. Prerequisite: GMS 6500. Pharmacology and toxicology of hormones and renal drugs.

GMS 6590 SEMINAR IN PHARMACOLOGY

1 credit. Prerequisite: GMS 6500. Research reports and discussion of current research literature by graduate students, faculty and invited lectures.

GMS 6563 MOLECULAR PHARMACOLOGY

3 credits. Prerequisites: GMS 6500, CHM 3401. A biochemical approach to the actions of drugs, stressing analysis of drug-receptor interactions, structure-activity relationships, kinetics of distribution of drugs and metabolism of foreign compounds.

GMS 7591 RESEARCH METHODS IN PHARMACOLOGY

1 to 3 credits; maximum 6. Reading, discussions and practical experience with modern methods used in pharmacology. Chemical and biological methods.

GMS 7593 TOPICS IN PHARMACOLOGY AND TOXICOLOGY
1 to 3 credits; maximum 12. Seminars, informal conferences, or laboratory work on selected topics in pharmacology and toxicology.

GMS 6735 NEUROPHARMACOLOGY
3 credits. Prerequisites: Background in biochemistry and basic neuroscience or consent of instructor. The identification, synthesis, metabolism, and pharmacology of neurotransmitters and their receptors, to include biogenic amines, neuropeptides and other nervous system transmitters.

PHYSIOLOGY

The Department of Physiology offers a program leading to the Doctor of Philosophy degree in the medical sciences with specialization in physiology.

Areas of specialization within the Department of Physiology include cellular physiology, general endocrinology, neuroendocrinology, neurophysiology, respiration, circulation, physiology of muscle, cardiac electrophysiology, epithelial transport, neonatal physiology and sensory physiology.

Undergraduate majors appropriate as foundations for the study of physiology are biology, chemistry, engineering, mathematics or physics. The following courses are especially useful as a background for the study of physiology: general biology, vertebrate biology, general chemistry, analytical chemistry, organic chemistry, physical chemistry, general physics, calculus, and statistics. Students may find it necessary to remedy deficiencies in their background by taking undergraduate courses after admission to Graduate School.

GMS 5421 VISION
3 credits. Prerequisite: Consent of instructor. Introduction to methodology, anatomy and function of vision.

GMS 5400C PRINCIPLES OF PHYSIOLOGY
6 credits. Prerequisites: APB 3203 or equivalent. Physiology of mammalian organ systems, with special reference to the human.

GMS 5400L LABORATORY IN PHYSIOLOGY
2 credits. Corequisite: GMS 5400C. Laboratory course designed to illustrate the principles of physiology. Students perform exercises coordinated with topics under discussion in BMS 5520C.

GMS 5403 ADVANCED ENDOCRINOLOGY
2 credits. Prerequisites: GMS 5400C or equivalent; consent of instructor. Readings, discussion and lectures on recent advances in endocrinology. This course will be offered every even year and alternates with Physiology BMS 6502.

GMS 6432 MEMBRANE TRANSPORT PHYSIOLOGY
2 credits. Topics include the hosts of membrane selectivity, mechanisms of ATPases, channels, carriers, ionophores, physiology and regulation of transport.

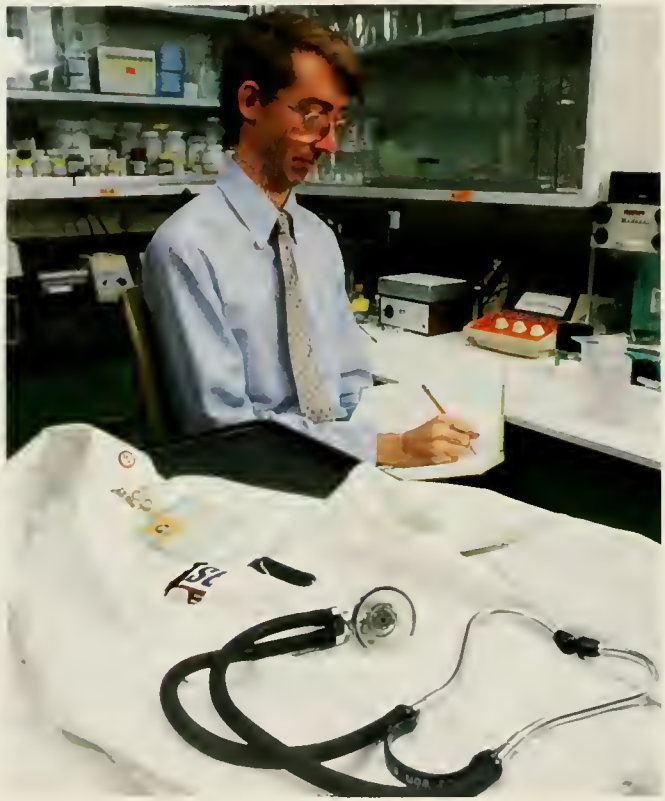
BMS 6562 PATHOPHYSIOLOGY
3 credits. Introduction into basic mechanisms of disease states with emphasis on the cardiovascular, respiratory, renal and gastrointestinal systems.

GMS 6430 CELL PHYSIOLOGY
3 credits. Prerequisite: Physiology GMS 5400C; consent of instructor. Designed for graduate students in physiology to give them an introduction to cellular

physiology of the eukaryotic cell. This course was offered in the fall of 1985 and will be offered every odd year thereafter.

GMS 6422 SURVEY OF SENSORY SYSTEMS
3 credits. Prerequisite: BMS 6510. Theories and data on human sensory reception and encoding. Audition, vision and the chemical and cutaneous senses.

GMS 6460 CATECHOLAMINE IN PHYSIOLOGICAL CONTROL
2 credits. Prerequisite: GMS 5400C or equivalent, and consent of instructor. Lectures in all aspects of catecholamine physiology and pharmacology.



GMS 6495 SEMINAR IN PHYSIOLOGY
1 credit. S/U.

GMS 6496 RECENT ADVANCES IN PHYSIOLOGY
2 credits; maximum 10. Content varies from year to year but covers recent advances in physiology.

GMS 6497 SEMINAR ON VISION
3 credits. Current research and theory in visual function. Literature survey and design of an experiment relevant to recent theory.

GMS 6498 HISTORY OF PHYSIOLOGY
2 credits. Prerequisite: Consent of instructor. The development of physiological knowledge and concepts. Readings, lectures, and discussion.

GMS 6490C RESEARCH METHODS IN PHYSIOLOGY
2 to 4 credits; maximum 6. Special needs of each student are met by conferences and laboratory work.

BMS 6450 MARINE PHYSIOLOGY
2 credits. Prerequisite: Physiology GMS 5400C; consent of instructor. Intended for graduate students in physiology. Will be taught at Whitney Marine Laboratory.

GMS 6402 PHYSIOLOGY OF RESPIRATION
2 credits. Gas exchange in lungs and tissues. Ventilatory mechanics. Fluid mechanics of gas flow in airways. Comparative physiology and respiratory mechanisms.

GMS 6410 PHYSIOLOGY OF THE CIRCULATION OF BLOOD
2 credits. Physiology of the component parts of the circulation, relation of structure and function, emphasis on control mechanisms.

GMS 6499 RENAL PHYSIOLOGY
2 credits. Seminar on the comparative physiology aspects of renal structure and function.

GMS 6409 BODY TEMPERATURE REGULATION
2 credits. Neural and endocrine aspects of temperature regulation, hypo- and hyperthermia, adaptation to cold and heat, hibernation.

GMS 6475 NEONATAL PHYSIOLOGY
2 credits. Physiological regulation in newborn mammals.

GMS 6478 PHYSIOLOGY OF THE MAMMALIAN THYROID GLAND
2 credits. Production, secretion, control, and function of thyroid hormones; interaction with other hormones.

GMS 6479 GASTROINTESTINAL PHYSIOLOGY
2 credits. Physiology of the vertebrate salivary glands, stomach, small and large intestine, pancreas, liver, and the muscular movements of the gastrointestinal system.

GMS 6793 SENSORY SCIENCE SEMINAR
1 credit. Results of current investigations in sense organ function will be covered. S/U.

GMS 7752 PHYSIOLOGY AND PHARMACOLOGY OF EXCITABLE MEMBRANES
2 credits. Membrane ionic permeability changes underlying action and synaptic potential generation described in detail.

GMS 7413 BASIC CARDIAC ELECTROPHYSIOLOGY
2 credits. Study of the normal electrophysiology and ionic mechanisms involved in various regions of the heart.

GMS 7419 ELECTROPHYSIOLOGICAL BASIS OF CARDIAC DYSRHYTHMIAS
2 credits. Study of normal cardiac cellular electrophysiology and changes which result in cardiac dysrhythmias. New techniques in diagnosis and management.

INTERDISCIPLINARY PROGRAMS
CELL STRUCTURE AND FUNCTION

Interdisciplinary graduate study in cell structure and function provides students with a strong background in the application of morphological, molecular, biophysical, genetic and immunological approaches to basic problems relating to cell function. The interdisciplinary nature of the specialization permits a broad spectrum of research opportunities tailored to the specific needs of each student.

Approximately 50 faculty members participate in the program. Research areas include developmental biology, gametogenesis, intracellular targeting, molecular organization and function of organelles, cytoskeleton, signal transduction, action of hormones and neurotransmitters, energy metabolism and control, visual biochemistry, cellular and molecular immunology, biomembranes/membrane transport, molecular basis of disease, cancer biology, and mechanisms of viral infection. Prerequisites include a basic course in cell biology, biochemistry and physical chemistry or equivalents.

During the first year the student takes courses in Cell and Tissue Biology (GMS 5621), Molecular Biology or Genetics (BCH 6415 or GMS 6152). Three research rotations are required, starting at the end of the first semester and completed by the beginning of the second year. At that time the student selects one of the departments in the College of Medicine that will represent his or her major area.

In the second year, the student also selects a dissertation chair and committee and takes Advanced Physical Biochemistry (BCH 6740) and two courses to fulfill major departmental requirements. The student should also complete the qualifying examinations, oral and written, which are administered by members of the interdisciplinary faculty and the chosen department. During the third and fourth years and beyond, if necessary, the student completes departmental requirements and completes and defends the dissertation research.

In addition to the above requirements, students will be expected to participate in research discussion groups to be organized by the interdisciplinary faculty, as well as departmental journal clubs. Student teaching, if any, will be determined by the individual departments. For additional information write to Director of Interdisciplinary Programs, College of Medicine, Box 100215 JHMHSC.

TOXICOLOGY

The Center for Environmental and Human Toxicology serves as the focal point for activities concerning the effects of chemicals on human and animal health. The Center's affiliated faculty is composed of approximately 20 to 30 scientists and clinicians, interested in elucidating the mechanisms of chemical-induced toxicity, and is drawn from the Colleges of Medicine, Veterinary Medicine and Engineering, and the Institute of Food and Agricultural Sciences. The broadly based, interdisciplinary expertise provided by this faculty also is used to address complex issues related to the protection of public health and the environment.

Students who wish to receive graduate training in interdisciplinary toxicology leading to a Ph.D. enroll through one of the participating graduate programs, such as Pharmacology and Therapeutics, Pathology and Laboratory Medicine, Animal Science, or Food Science and Human Nutrition. The number of graduate programs involved in interdisciplinary toxicology, as well as the variety of perspectives provided by their disciplines, allows a great deal of flexibility in providing a plan of graduate study to meet an individual student's interests and goals in toxicology. Student course work and dissertation research are guided by the Center's researchers and affiliated faculty who are also members of the graduate faculty of the student's major department. Dissertation research may be conducted either in the student's department, or at the toxicology laboratory facilities located at the Center.

VISION SCIENCE TRAINING

The Department of Ophthalmology maintains a Vision Sciences Training Program for students seeking the Ph.D. degree. Primary financial support for the program is provided by an NIH National Eye Institute Training Grant. This program is designed for training in the areas of molecular/cellular biology, biochemistry, and immunology with particular emphasis on vision. The program is organized to rigorously instruct and reinforce skills pertinent to experimental science and involves coursework in molecular and cell biology, genetics and immunology as well as independent research, oral presentations, written research proposals, peer review and the sharpening of communicative skills.

The program is interdisciplinary and utilizes a core group of 12 faculty preceptors with active vision research and training programs whose primary and joint appointments span the majority of the basic science departments at the University of Florida College of Medicine. The Department of Ophthalmology will serve as the administrative and logistical center for this program, but individual faculty preceptors

maintain primary graduate training appointments in the Departments of Anatomy and Cell Biology, Biochemistry and Molecular Biology, Immunology and Medical Microbiology, Neuroscience, Pathology and Laboratory Medicine, and Pharmacology and Therapeutics. Many preceptors share cross appointments in multiple basic science and clinical departments thus allowing trainees to gain access to virtually the full range of scientific and training expertise available in the College of Medicine.

Qualified students in any area of biological science will be considered for the program with or without commitment to a specific area of vision research and will, within the first year, choose a preceptor under whose supervision thesis work will ensue. All enrolled students will receive the standard NIH graduate stipend which, if necessary, will be supplemented up to current college levels. Tuition and fees are paid by the NIH traineeship. The overall aim of the program is to produce Ph.D. or M.D./Ph.D. investigators capable of sustaining productive research careers in the vision sciences. Decisions for admission to the program are made by late April to begin in the program each August. Interested individuals should inquire no later than February to receive application materials. Initial inquiries should be sent to Director of Visual Science Training Program, Department of Ophthalmology, Box 100284 JHMHSC, Gainesville, Florida 32610.

UNDERGRADUATE COURSES

These courses are offered by the College of Medicine for students majoring in other colleges.

Individual interdisciplinary programs leading to an Interdisciplinary Studies major may be designed and initiated, with review and approval by the IDS Committee of the College of Liberal Arts and Sciences, by a student whose academic goals are not met by an existing departmental undergraduate major.

The Department of Biochemistry and Molecular Biology, the Department of Neuroscience and the Junior Honors Medical Program offer IDS majors in conjunction with the College of Liberal Arts and Sciences' undergraduate degree granting program.

APB 3203 BASIC ANATOMY AND PHYSIOLOGY
3 credits. Prerequisite: ZOO 2013C. Open to all students in the Colleges of Nursing and Health Related Professions and to others by permission of instructor. The structure and physiological function of selected human systems.

BMS 4021 INTRODUCTION TO NEUROCHEMISTRY
3 credits. Prerequisite: Biochemistry. Discussion of current topics in neurochemistry. To include the metabolism of carbohydrates, lipids, amino acids, proteins and nucleic acids, the metabolism and function of neurotransmitters and axoplasmic flow.

BCH 4024 INTRODUCTION TO BIOCHEMISTRY AND MOLECULAR BIOLOGY
4 credits. Prerequisite: Organic chemistry. An introduction to physical biochemistry, intermediary metabolism and molecular biology. Topics include a survey of structure, chemistry and function of proteins and nucleic acids, enzyme kinetics and mechanisms

and catalysis; a survey of the pathways of carbohydrate, lipid and nitrogen metabolism and their metabolic control; regulation of gene expression at the level of DNA, RNA and protein synthesis. This course is offered fall and spring semesters.

BMS 4401 PHARMACOLOGY
2 credits. This course is designed to introduce the subject to interested students in a research and topically oriented manner and will be of particular value to students considering research-oriented careers in the biological or medical sciences.

BCH 4413 MOLECULAR AND CELL BIOLOGY
4 credits. Prerequisite: Consent of instructor. Corequisite: A course in biology at 3000 level or above. The course provides in-depth treatment of molecular and cell biology and is recommended for outstanding graduate students particularly, but not exclusively, those interested in the individual Interdisciplinary Studies Program and/or graduate work. This course is not considered appropriate for pre-professional students. Topics will include DNA replication; RNA synthesis, processing and regulation; protein synthesis; control gene expression; and the biochemistry of cell organelles.

BCH 4905 BIOCHEMISTRY SENIOR RESEARCH
3 to 5 credits; maximum 15. Prerequisites: BCH 4313, CHM 3210-3211 or equivalent, or department approval. Enrollment limited to independent interdisciplinary majors. Laboratory investigations of contemporary biochemical problems. May be repeated with change of content up to a maximum of 15 credits. Senior thesis required.

BMS 4905 MEDICAL SCIENCES SENIOR RESEARCH
3 to 5 credits. Prerequisite: Department approval. Corequisite: BCH 4313. Laboratory or literature investigations of problems of current interest in the medical sciences. May be repeated.

Enrollment for the following courses is restricted to students accepted in the Basic Biological and Medical Sciences Program:

BMS 4010 INTRODUCTION TO MEDICAL SCIENCES SEMINAR
3 credits. Selected in-depth special topics in the preclinical basic sciences and their application to clinical problems.

BMS 4011 INTRODUCTION TO MEDICAL SCIENCES SEMINAR
3 credits. Continuation of BMS 4010.

BMS 4012 CELL BIOLOGY SEMINAR
4 credits. Cellular functions in health and disease. The structure and molecular biology of the mammalian cells are stressed including such things as virus-cell interactions, inborn errors of metabolism and bacterial growth. Identical to PCB 4930.

BMS 4013 INTRODUCTION TO MEDICAL SCIENCES SEMINAR III
3 credits. Continuation of BMS 4010.

INDEPENDENT INTERDISCIPLINARY MAJOR IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

Students matriculating in the College of Liberal Arts and Sciences who desire an undergraduate emphasis in biochemistry and molecular biology, should consider the Independent Interdisciplinary Major Program. The program is designed for students who wish to pursue either graduate research in biochemistry and related medical sciences, or with a strong interest in academic medicine. An independent interdisciplinary major in biochemistry may be arranged through the Department of Biochemistry and Molecular Biology and submitted for approval by the Committee of Interdisciplinary Studies of the College of Liberal Arts and Sciences. Program applicants must have a strong background in chemistry and biology courses.

The advanced level course work required includes BCH 4024, two semesters of BCH 4905 Biochemistry Senior Research and submission of senior thesis. The latter provides an opportunity for an exceptionally well-qualified student to participate with a particular faculty member on an individualized research program in the faculty member's research laboratory. Enrollment in BCH 4024 is a suggested prerequisite for submission of a proposed independent interdisciplinary major in biochemistry to the College of Liberal Arts and Sciences and for enrollment in BCH 4905. Electives include advanced undergraduate offerings of the Departments of Botany, Chemistry, Computer Sciences, Microbiology and Cell Science, Neuroscience and Zoology.

Because of the individualized nature of the program, only a small number of students selected by the sponsoring faculty will be accepted annually. Application should be made during the sophomore year to enter the program during the junior year to the Department of Biochemistry and Molecular Biology.

FACULTY

ANATOMY & CELL BIOLOGY

ARIS, JOHN P., Ph.D (Stanford Univ.)
Assistant Professor
* BENNETT, GUDRUN S., Ph.D. (Rockefeller Univ.)
Joint Professor
* DUNN, WILLIAM A., JR., Ph.D. (Pennsylvania State U.)
Assistant Professor
* FELDHERR, CARL M., Ph.D. (Univ. of Pennsylvania)
Professor
* HOLLINGER, THOMAS G., Ph.D. (Purdue University)
Associate Professor
* LARKIN, LYNN H., Ph.D. (Univ. of Colorado)
Professor
* LINSER, PAUL J., Ph.D. (Univ. of Cincinnati)
Associate Professor
PADDY, MICHAEL R., Ph.D. (Univ. of Oregon)
Assistant Professor
* RAREY, KYLE E., Ph.D. (Indiana University)
Associate Professor
* ROMRELL, LYNN J., Ph.D. (Utah State University)
Professor and Associate Dean for Education
* ROSS, MICHAEL H., Ph.D. (New York University)
Professor and Chairman
* SELMAN, KELLY, Ph.D. (Harvard University)
Associate Professor
* WALLACE, ROBIN A., Ph.D. (Columbia University)
Professor
* WEST, CHRISTOPHER M., Ph.D. (Calif. Inst. of Tech.)
Associate Professor

* Members of the Graduate Faculty

ANESTHESIOLOGY

ANDERSEN, THORKILD W., M.D. (Univ. of Copenhagen)
Professor Emeritus
BANNER, MICHAEL J., Ph.D. (Univ. of Florida)
Assistant Professor and Assistant Professor of Physiology
BERGER, JERRY J., M.D. (Duke University)
Associate Professor
BERMAN, LAWRENCE S., M.D. (Jefferson Medical Col.)
Associate Professor and Associate Professor of Pediatrics
BINGHAM, H. LOCKE, M.D. (Univ. of Florida)
Assistant Professor/Jacksonville
BJORAKER, DAVID G., M.D. (Univ. of Minnesota)
Associate Professor
* BLOCK, A. JAY, M.D. (Johns Hopkins)
Professor and Professor and Chief of Pulmonary Medicine
BOMAN, JAMES C., Jr., M.D. (Univ. of Mississippi)
Clinical Assistant Professor/Jacksonville
* BOYSEN, PHILIP G., M.D. (Loyola-Stritch)
Professor and Chief, Respiratory Therapy/VAMC
and Assistant Chief Anesthesiology Services/VAMC and
Professor of Pulmonary Medicine
* CATON, DONALD, M.D. (Columbia Univ.)
Professor and Chief, Obstetric Anesthesia and
Professor of Obstetrics and Gynecology
COHEN, JERRY A., M.D. (Univ. of Miami)
Assistant Professor
DAVIES, LAURIE K., M.D. (University of Florida)
Associate Professor
DENNIS, DONN M., M.D. (Univ. of Michigan)
Instructor
DE PADUA, CONSTANTE B., M.D. (Univ. of Philippines)
Associate Professor
ENNEKING, F. KAYSER, M. D. (Univ. of Florida)
Assistant Professor
FONTENOT, H. JERREL, M.D., Ph.D. (Univ. of Miss.)
Assistant Professor
DIXON, CHERYL L., M.D. (Medical College of Ohio)
Assistant Professor
GALLAGHER, THOMAS J., M.D. (Univ. of Kentucky)
Professor and Chief, Critical Care Medicine and
Professor of Surgery
GARCIA, LORENZO M., M.D.
(Univ. of Santo Tomas. Philippines)
Clinical Instructor/Jacksonville

GIBBY, GORDON L., M.D. (Emory Univ.)
Assistant Professor and Assistant Professor of Medicine
GODBOLDT, ANTHONY O., M.D. (Meharry Med. Col.)
Assistant Professor/Jacksonville
GOOD, MICHAEL L., M.D. (Univ. of Michigan)
Assistant Professor
GOODWIN, SALVATORE R., M.D. (Univ. of Kentucky)
Associate Professor and
Associate Professor of Pediatrics
* GRAVENSTEIN, JOACHIM S., M.D. (Harvard University)
Graduate Research Professor
GRAVENSTEIN, NIKOLAUS, M.D. (Univ. of Florida)
Executive Associate Chairman and Associate Professor
and Associate Professor of Neurosurgery
GRAVES, SHIRLEY A., M.D. (Univ of Miami)
Professor and Chief, Pediatric Anesthesia and
Professor of Pediatrics
GRUNDY, BETTY L., M.D. (University of Florida)
Professor and Chief, Anesthesiology Services/VAMC
JAMES, CHRISTOPHER F., M.D. (Univ. of Maryland)
Associate Professor
JAMES, PEGGY B., M.D. (University of Florida)
Clinical Assistant Professor
KIRBY, ROBERT R., M.D.
(Univ. of California-San Francisco)
Professor
KLEIN, ALAN S., M.D. (Duke University)
Assistant Professor and Assistant Professor of Pediatrics
* KRISCHER, JEFFREY P., Ph.D. (Harvard University)
Professor and Professor of Pediatrics
and Chief, Epidemiology and Biostatistics
KOSKA, A. JAY, III, Ph.D (Univ of Texas)
Assistant Professor
KUNICHIKA, ERIC T., M.D. (Univ. of Hawaii)
Assistant Professor and Assistant Professor of Pediatrics
LAYON, ABRAHAM J., M.D. (Univ. of California-Davis)
Assistant Professor and
Assistant Professor of Medicine
MAHLA, MICHAEL E., M.D. (Jefferson Medical College)
Assistant Professor and
Assistant Professor of Neurosurgery
MELKER, RICHARD J., Ph.D., M.D.
(Albert Einstein Medical College)
Associate Professor and Associate Professor of Surgery
* MERRELL, WALTER J., M.D. (Vanderbilt University)
Assistant Professor and Assistant Professor of Pharmacology
MODELL, JEROME H., M.D. (Univ. of Minnesota)
Professor and Chairman and
Senior Associate Dean for Clinical Affairs
MURPHY, MAHIN R., M.D. (National University of Iran)
Clinical Assistant Professor/Jacksonville
PASHAYAN, ANNETTE G., M.D. (Bowman-Gray Sch. of Med.)
Associate Professor and Associate Professor of
Neurosurgery
PAULUS, DAVID A. , M.D. (University of Vermont)
Associate Professor and Chief
Cardiothoracic Anesthesia and
Associate Professor of Mechanical Engineering
PERKINS, HAVEN M., M.D. (University of Louisville)
Professor
REDFERN, ROBERT E., M.D. (Medical College of Georgia)
Clinical Assistant Professor/Jacksonville
SAGA-RUMLEY, SEGUNDINA A., M.D.
(Univ. of Philippines)
Associate Professor
SHAH, DINESH O., Ph.D. (Columbia University)
Professor and Professor of Chemical Engineering
SHAH, NAYANTARA S., M.D. (Grant Med. Col.-Bombay)
Clinical Assistant Professor/Jacksonville
SIDI, AVNER, M.D. (Hadassah Hebrew University)
Assistant Professor
SKORA, IRENA A., M.D. (Jagiellonski University)
Associate Professor and Associate Chairman/Jacksonville
and Associate Professor of Dental Education/Jacksonville
THOMAS, SUE J., M.D. (Wayne State Univ.)
Assistant Professor/Jacksonville
UTTERBACK, DAVID B., M.D. (Univ of Illinois)
Instructor
VAN DER AA, JOHANNES J., Ph.D. (Eindhoven Univ.)
Assistant Professor

WEBB, ALISTAIR I., B.V.Sc., Ph.D. (Univ. Bristol)
Associate Professor and Associate Professor of Veterinary Medicine
WHITE, SNO E., M.D. (Jefferson Medical College)
Assistant Professor
WISSLER, RICHARD N., M.D., Ph.D., (Columbia Univ.)
Assistant Professor

BIOCHEMISTRY AND MOLECULAR BIOLOGY

ALLEN, CHARLES M., JR., Ph.D. (Brandeis University)
Professor of Biochemistry and Molecular Biology
ALLISON, R. DONALD, II, Ph.D.
(University of Calif-Santa Barbara)
Assistant Scientist of Biochemistry and Molecular Biology
* BOYCE, RICHARD P., Ph.D. (Yale University)
Professor of Biochemistry and Molecular Biology
* CAIN, BRIAN D., Ph.D. (Univ. of Illinois)
Assistant Professor of Biochemistry and Molecular Biology
* CHUN, PAUL W., Ph.D. (University of Missouri)
Professor of Biochemistry and Molecular Biology
* COHEN, ROBERT J., Ph.D. (Yale University)
Associate Professor of Biochemistry and Molecular Biology
DENSLOW, NANCY D., Ph.D. (University of Florida)
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* DUNN, BEN M., Ph.D. (Univ. of Calif.-Santa Barbara)
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* FROST, SUSAN C., Ph.D. (University of Arizona)
Associate Professor of Biochemistry and Molecular Biology
* KILBERG, MICHAEL S., Ph.D. (Univ. of South Dakota)
Professor and Associate Chairman of Biochemistry and Molecular Biology
KOROLY, MARY J., Ph.D. (Bryn Mawr College)
Assistant Scientist of Biochemistry and Molecular Biology
* LAIPIS, PHILIP J., Ph.D. (Stanford University)
Professor of Biochemistry and Molecular Biology
* MANS, RUSTY J., Ph.D. (University of Florida)
Professor of Biochemistry and Molecular Biology
* McGUIRE, PETER M., Ph.D. (Univ. of North Carolina)
Assistant Professor of Biochemistry and Molecular Biology
* NICK, HARRY S., Ph.D. (University of Pennsylvania)
Associate Professor of Biochemistry and Molecular Biology
* O'BRIEN, THOMAS W., Ph.D. (Marquette University)
Professor of Biochemistry and Molecular Biology
* PURICH, DANIEL L., Ph.D. (Iowa State University)
Professor and Chairman of Biochemistry and Molecular Biology
* SCHUSTER, SHELDON M., Ph.D. (University of Arizona)
Professor of Biochemistry and Molecular Biology
YANG, THOMAS P., Ph.D. (Univ. of Calif., Irvine)
Assistant Professor of Biochemistry and Molecular Biology
* YOUNG, D. MICHAEL, M.D. (Duke University)
Professor of Biochemistry and Molecular Biology and Professor of Medicine

COMMUNITY HEALTH AND FAMILY MEDICINE

ANTIPORDA, GLORIOSA R., M.D.
(University of the East Ramon Magsaysay)
Clinical Instructor/Jacksonville
BAILEY, DAVID W., M.D. (McGill University)
Associate Professor/Jacksonville
BOBROW, ELIAS N., M.D. (University of Buenos Aires)
Assistant Professor/Jacksonville
BROWN, ROBERT L., M.D. (University of Florida)
Clinical Instructor/Jacksonville
CARANASOS, GEORGE J., M.D. (Johns Hopkins)
Professor of Medicine,
Professor of Community Health and Family Medicine
CLARK, CHRISTINE S., M.S.W. (Florida State Univ.)
Assistant in Community Health and Family Medicine
COHEN, CLARENCE, M.D. (Univ. of Munich)
Clinical Assistant Professor/Jacksonville
* CRANDALL, LEE A., Ph.D. (Purdue University)
Professor of Community Health and Family Medicine
CURRY, ROBERT W., JR., M.D. (Duke University)
Professor and Interim Chairman of Community Health and Family Medicine

DEWAR, MARVIN A., M.D. (Univ. of South Florida)
Assistant Professor of Community Health and Family Medicine
DOFF, SIMON D., M.D. (State Univ. of New York)
Clinical Professor/Jacksonville
DOUGLAS, HERSCHEL L., M.D. (Univ. of Oklahoma)
Professor and Associate Dean and Assistant Vice President for Clinical Affairs/Jacksonville
DUERSON, MARGARET, Ph.D. (University of Florida)
Assistant Professor of Community Health and Family Medicine
FERRER, ASTERIA A., M.D. (University of Santo Tomas)
Clinical Instructor/Jacksonville
FULLER, JANE A., R.N. (Finley School of Nursing)
Assistant in Community Health and Family Medicine
FUNDERBURK, MARCIA W., M.D. (Univ. of Iowa)
Assistant Professor/Jacksonville
GAUDRY, CHARLES L., JR., M.D. (Univ. of Virginia)
Associate Professor/Jacksonville
GRAUER, KENNETH A., M.D. (SUNY-Upstate)
Professor of Community Health and Family Medicine
GREEN, J. RUSSELL, JR., M.D. (University of Virginia)
Professor of Medicine and Joint Professor of Community Health and Family Medicine
GREENE, BARRY R., Ph.D. (St. Louis University)
Professor and Chairman, Health Related Professions; Professor of Community Health and Family Medicine
GRISNIK, JOHN A., Jr., M.D. (University of Pittsburgh)
Assistant Professor/Jacksonville
HADDAD, CHARLES J., M.D. (Universidad Mundial)
Clinical Instructor/Jacksonville
HALL, KAREN L., M.D. (Medical College of Virginia)
Assistant Professor of Community Health and Family Medicine
HARRIS, TOM V., M.B.A. (University of Florida)
Assistant Dean for Administrative Affairs and Lecturer in Community Health and Family Medicine
HERMSDORFER, CYNTHIA L., M.D. (UCLA)
Assistant Professor of Commuinity Health and Family Medicine
HODGIN, JON D., M.D. (Univ. of North Carolina)
Associate Professor of Psychiatry and Associate Professor of Community Health and Family Medicine
ISRAEL, RODGER D., M.D. (Univ. of South Florida)
Assistant Professor of Community Health and Family Medicine
KANE, ANDREW J., M.D. (SUNY-Buffalo)
Assistant Professor/Jacksonville
KELLETT, BOYD A., M.D. (McGill University)
Director of Student Health Services and Lecturer of Community Health and Family Medicine
KELLOGG-ROBINSON, MARY P., M.D. (Univ. of Florida)
Assistant Professor/Jacksonville
KNIGHT, JOHN C., P.A.-C. (Emory University)
Physician Assistant in Community Health and Family Medicine
KOSCH, SHARON G., Ph.D. (University of Florida)
Associate Professor of Behavioral Sciences, Liberal Arts and Sciences and Associate Professor of Community Health and Family Medicine
LAVINA, JOEL S., M.D.
(Univ. of Santo Thomas, Manila, Philippines)
Assistant Professor/Jacksonville
LEGLER, DONALD W., D.D.S., Ph.D. (U. of Minn.; U. of Ala.)
Dean and Professor, College of Dentistry and Professor of Community Health and Family Medicine
LEWIS, KENNETH R., M.D. (Amer. Univ. of the Caribbean)
Clinical Instructor/Jacksonville
LIPKOVIC, LIDA, M.D. (Univ. of Zagreb, Yugoslavia)
Clinical Assistant Professor/Jacksonville
LOPEZ, JOSE R., M.D. (University of Seville, Spain)
Assistant Professor of Community Health and Family Medicine/Jacksonville
McLAMB, JAMES N., M.D. (University of North Carolina)
Associate Professor and Associate Chairperson/Jacksonville
MICOLUCCI, VICTOR C., M.D. (University of Florida)
Clinical Instructor/Jacksonville
MONKHORST, HENDRIKA P., M.S. (Univ of Utah)
Assistant in Community Health and Family Medicine
MOSELEY, RAY E., Ph.D. (Georgetown University)
Associate Professor and Chief of Community Health and Family Medicine
MURPHREE, DUAINE D., M.D. (Univ. of South Alabama)
Assistant Professor/Jacksonville

PERCHALSKI, JOHN E., M.D. (University of Florida)
Associate Professor of Community Health and Family Medicine
PEREZ, ERLINDA A., M.D. ((University of Santo Tomas)
Clinical Instructor/Jacksonville
PROBERT, WALTER, J.S.D. (Yale University)
Professor of Law and Professor of Community Health and Family Medicine
RATHE, RICHARD J., M.D. (University of Minnesota)
Assistant Professor
REEDER, HAROLD B., M.D. (Univ. of Tennessee)
Assistant Professor/Jacksonville
ROBINSON, JAMES D., PHARM. D. (Univ. of Cincinnati)
Professor of Pharmacy and Professor of Community Health and Family Medicine
ROOKS, LARRY G., M.D. (University of Florida)
Lecturer of Community Health and Family Medicine
ROMANO, GENO V., M.D. (Marshall Univ.)
Assistant Professor of Comminity Health and Family Medicine
SILVERSTEIN, JANET H., M.D. (Univ. of Pennsylvania)
Associate Professor of Pediatrics and Associate Professor of Community Health and Family Medicine
SMITH, FRANKLIN L. II, M.B.A. (University of Florida)
Associate Dean for Administrative Affairs and Lecturer in Community Health and Family Medicine
SOLOMON, WILLIAM C., JR., M.D. (Univ. of South Alabama)
Clinical Assistant Professor of Comminity Health and Family Medicine/Jacksonville
STEWART, ERIC B., M.D. (University of Iowa)
Clinical Instructor/Jacksonville
WAGNER, PATRICIA A., Ph.D. (University of Wisconsin)
Associate Professor of Extension Human Nutrition and Affiliate Associate Professor of Community Health and Family Medicine
WILSON, GEORGE., III, M.D. (Univ. of Mississippi)
Assistant Professor/Jacksonville

IMMUNOLOGY AND MEDICAL MICROBIOLOGY

* BAKER, HENRY V., II, Ph.D. (University of Maryland)
Assistant Professor
CONDIT, RICHARD C., Ph.D. (Yale University)
Professor
* CRANDALL, RICHARD B., Ph.D. (Purdue University)
Professor
* DUCKWORTH, DONNA H., Ph.D. (Johns Hopkins)
Professor
* FLANEGAN, JAMES B., Ph.D. (University of Michigan)
Professor
GIFFORD, GEORGE E., Ph.D. (University of Minnesota)
Professor Emeritus and Associate Dean for Graduate Education
GULIG, PAUL A, Ph.D. (University of Texas)
Assistant Professor
HAUSWIRTH, WILLIAM W., Ph.D. (Oregon State Univ.)
Professor
LAWMAN, MICHAEL J., Ph.D. (Univ. of Surrey)
Associate Professor and Associate Professor Pediatrics
LEWIN, ALFRED S., Ph.D. (University of Chicago)
Associate Professor
* MOYER, RICHARD W., Ph.D. (Univ. of Cal.-Los Angeles)
Professor and Chairman
MOYER, SUE A., Ph.D. (Columbia University)
Professor and Professor of Pediatrics
* SMALL, PARKER A., JR., M.D. (University of Cincinnati)
Professor and Professor of Pediatrics
SWANSON, MAURICE S., Ph.D. (Univ. of California)
Assistant Professor
TURNER, PETER C., Ph.D. (Cambridge Univ.)
Assistant Scientist

MEDICINE

Medicine andCommunity Programs

COWARD, RAYMOND T., Ph.D. (Purdue University)
Professor and Associate Director,
Center tor Health Policy Research
FOSTER, MALCOM T., M.D. (Bowman Gray)
Professor and Chief and Associate Chairman for
Jacksonville Programs/Jacksonville
* McGUIGAN, JAMES E., M.D. (St. Louis University)
Professor and Chairman, Department of Medicine and
Professor of Immunology and Medical Microbiology
MILLER, MICHAEL K., Ph.D. (Penn State Univ.)
Professor of Medicine and Community Health and
Family Medicine; Director, Center for Health Policy Res.
* MORELAND, ALVIN F., D.V.M. (University of Georgia)
Professor and Professor of Comparative Medicine
* STEIN, GERALD H., M.D. (Univ. of Pennsylvania)
Assistant Professor and Assistant Professor of
Nursing and Psychology

Cardiology

BASS, THEODORE, M.D. (Brown University)
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BELARDINELLI, LUIZ, M.D.
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CHAMI, YOUSSEF, G., M.D. (Claude Bernard Univ., Lyon
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CONTI, C. RICHARD, M.D. (Johns Hopkins)
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Chief of Cardiology
CREVASSE, LAMAR E., M.D. (Duke University)
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Education
CURTIS, ANNE, M.D. (Columbia Univ.)
Assistant Professor
GEISER, EDWARD A., M.D. (University of Cincinnati)
Professor & Associate Director, CRC
GILMORE, PAUL S., M.D. (Creighton University)
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GRAVES, JAMES E., Ph.D. (Univ. of Massachusetts)
Assistant Research Scientist in Medicine
Exercise and Sports Sciences and Physiology
GREEN, J., RUSSELL, JR., M.D. (University of Virginia)
Professor and Professor of Community Health
and Family Medicine
HILL, JAMES A., M.D. (University of Maryland)
Associate Professor
KIRCHER, BARBARA J., M.D. (Univ. of Virginia)
Assistant Professor/Jacksonville
LEW, DAVID C., M.D. (Univ. of Florida)
Clinical Assistant Professor
LIMACHER, MARIAN, M.D. (St. Louis University)
Associate Professor
MEHTA, JAWAHAR, M.D. (Panjab Univ., India)
Professor
MILLER, ALAN B., M.D. (University of Pittsburgh)
Professor and Chief/Jacksonville
MILLS, ROGER, M.D. (Univ. of Penn. School of Medicine)
Associate Professor
* NICHOLS, WILMER W., Ph.D. (University of Alabama)
Associate Professor and Associate Professor of Physiology
* PEPINE, CARL J., M.D. (New Jersey Medical School)
Professor and Chief/VAMC
PERCY, ROBERT F., M.D. (University of Mississippi)
Assistant Professor/Jacksonville
POLLOCK, MICHAEL L., Ph.D. (University of Illinois)
Professor of Medicine, Physiology,
and Health and Human Performance
SHRYOCK, JOHN C., III, Ph.D. (Thomas Jefferson Univ.)
Assistant Research Scientist
TAYLOR, W. JAPE, M.D. (Harvard University)
Distinguished Service Professor
WARGOVICH, THOMAS J. (West Virginia Univ.)
Assistant Professor

Computer Sciences

ARIET, MARIO, Ph.D. (University of Florida)
Professor and Chief, Computer Sciences and
Professor of Community Health and Family Medicine
CREVASSE, LAMAR E., M.D. (Duke University)
Professor and Associate Dean for Continuing Medical Education

Dermatology

BEERS, BETSY B., M.D. (Univ. of Florida)
Assistant Professor
FLOWERS, FRANKLIN P., M.D. (Univ. of Florida)
Associate Professor and Chief and Associate Professor of Pathology
FORD, MICHAEL, M.D. (Univ. of Florida)
Assistant Professor
RAMOS-CARO, FRANCISCO A., M.D. (U. of Puerto Rico)
Assistant Professor

Endocrinology and Metabolism

EDWARDS, CATHERINE, M.D. (Univ. of Michigan)
Instructor
* FISHER, WALDO R., M.D., Ph.D. (Univ. of Pennsylvania)
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* FREUND, GERHARD, M.D. (Goethe University)
Professor and Professor of Neuroscience
GRANT, MARIA B., M.D. (University of Florida)
Assistant Professor
HENDERSON, GEORGE N., Ph.D.
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Assistant Research Scientist
MERIMEE, THOMAS J., M.D. (University of Louisville)
Professor and Chief
MISBIN, ROBERT I., M.D. (Johns Hopkins)
Associate Professor
MURRAY, FREDERICK T., M.D. (Hahnemann Med. Col.)
Associate Professor
SKOWSKY, RONALD, M.D. (Albany Medical College)
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* STACPOOLE, PETER W., Ph.D., M.D. (Vanderbilt)
Professor of Medicine and Biochemistry and Molecular Biology and Director, Clinical Research Center
THOMAS, WILLIAM C., M.D. (The New York Hospital)
Clinical Professor

Gastroenterology, Hepatology and Nutrition

ACHEM, SAMI, M.D.
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BEERS, THOMAS R., M.D. (Univ of Florida)
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CAMPBELL-THOMPSON, MARTHA, Ph.D (Univ. of Florida)
Instructor
* CERDA, JAMES J., M.D. (University of Maryland)
Professor and Associate Chairman
DAVIS, GARY L., M.D. (Univ. of Minnesota)
Associate Professor
EAKER, ERVIN Y., JR., M.D. (Univ. of Miami)
Assistant Professor
FORSMARK, CHRISTOPHER, M.D. (Johns Hopkins)
Assistant Professor
GELLER, ARTHUR J., M.D. (Columbia Univ.)
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KOLTS, BYRON E., M.D. (University of Rochester)
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MAC MATH, TERRY L., M.D. (SUNY-Upstate)
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MAILLIARD, MARK E., M.D. (University of Nebraska)
Assistant Professor
* McGUIGAN, JAMES E., M.D. (St. Louis University)
Professor and Chairman and Professor of Immunology and Medical Microbiology
MYERS, BRENT, M.D. (Univ. of Texas)
Assistant Professor
SNINSKY, CHARLES A., M.D. (Temple University)
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* TOSKES, PHILLIP P., M.D. (University of Maryland)
Professor and Chief
VALENTINE, JOHN F., M.D. (Univ. of Texas/Houston)
Assistant Professor

Internal Medicine

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Community Health and Family Medicine
DAVIDSON, RICHARD A., M.D. (Vanderbilt Univ.)
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EDWARDS, KERRY I., M.D. (LSU)
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HARWARD, MARY, M.D. (Duke Univ.)
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HILKER, MARY ANNE, Ph.D. (University of Florida)
Assistant Research Professor and Associate Director,
Geriatric Education Center
KOCH, KATHRYN A., M.D. (Johns Hopkins)
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LOWENTHAL, DAVID T., M.D. (Temple University)
Prof. of Medicine and Pharmacology and Dir. GRECC
McKAY, JULIE M., M.D. (Wayne State University)
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* MEULEMAN, JOHN R., M.D. (Washington Univ.-St.
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MEYERS, BRUCE W., M.D. (Univ. of Miami Sch. of Med.)
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ROBERTSON, LINDA M., M.D. (East Carolina Univ.)
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Hematology

KITCHENS, CRAIG S., M.D. (University of Florida)
Professor and Professor of Pathology and Assistant Department Chairman and Chief of Medical Service/VAMC
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NOYES, WARD D., M.D. (University of Rochester)
Professor and Chief
STREIFF, RICHARD R., M.D. (University of Basel)
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WHITTINGTON, RICHARD, M.D. (Jefferson Med. Col.)
Clinical Professor and Assistant Dean

Infectious Diseases

BENDER, BRADLEY S. M.D. (University of Maryland)
Associate Professor
CLUFF, LEIGHTON, M.D. (George Washington Univ.)
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FOSTER, MALCOLM T. (Bowman Gray)
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RAMPHAL, REUBEN, M.D. (McGill University)
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* SHANDS, JOSEPH W., Jr., M.D. (Duke University)
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Nephrology

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MARS, DONALD R., M.D. (University of Miami)
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Associate Professor
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WELCH, WILLIAM J., Ph.D. (University of Kentucky)
Assistant Scientist
WILCOX, CHRISTOPHER S., M.D., Ph.D. (Oxford Univ.)
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WINGO, CHARLES S., M.D. (Louisiana State)
Associate Professor

Oncology

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MARSH, ROBERT D., M.D. (Univ. of Capetown)
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MILLER, ALAN, M., M.D., Ph.D. (University of Miami)
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OBLON, DAVID J., M.D. (University of Pennsylvania)
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* WEINER, ROY S., M.D. (SUNY-Downstate)
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Professor of Immunology and Medical Microbiology
ZUCALI, JAMES R., Ph.D. (New York Univ.)
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Rheumatology and Clinical Immunology

CORMAN, LOURDES C., M.D. (Women's Medical College of Penn.)
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CROGHAN, THOMAS W., M.D. (West Virginia Univ.)
Assistant Professor
EDWARDS, N. LAWRENCE, M.D. (Univ. of Miami)
Associate Professor
SCHIFFENBAUER, JOEL L., M.D. (Albert Einstein College)
Assistant Professor
STEIN, GERALD H., M.D. (Univ. of Penn.)
Assistant Professor
WILLIAMS, RALPH C., JR., M.D. (Cornell Univ.)
Eminent Scholar and Chief

Pulmonary Medicine

* BLOCK, A., JAY, M.D. (Johns Hopkins)
Professor and Chief and Professor of Anesthesiology
BLOCK, EDWARD R., M.D. (Johns Hopkins)
Professor of Medicine and Associate Chief of Staff
for Research/VAMC
CICALE, MICHAEL J., M.D. (Georgetown University)
Associate Professor
CURY, JAMES DAVIS, M.D. (University of Miami)
Assistant Professor/Jacksonville
GONZALEZ-ROTHI, RICARDO J., M.D. (New York Univ.)
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HARMAN, ELOISE M., M.D. (Johns Hopkins)
Professor
* HARRIS, J. OCIE, M.D. (University of Mississippi)
Professor and Chief/VAMC; Associate Dean for
Community Based Programs
PATEL, JAWAHARLAL M., Ph.D. (Marathawanda Univ.)
Associate Scientist
RYERSON, EUGENE G., M.D. (New Jersey Medical School)
Associate Professor
SPEVETZ, ANTOINETTE, M.D. (Hahnemann Univ.)
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NEUROLOGICAL SURGERY

* ARCE, CARLOS A., M.D. (Cayetano Heredia Univ., Peru)
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DAY, ARTHUR L., M.D. (Louisiana State University)
Eminent Scholar
DELASHAW, JOHNNY B., M.D. (Univ. of Washington)
Assistant Professor of Neurological Surgery and
Chief, VAMC
FAILLACE, WALTER, M.D. (Univ. di Roma)
Assistant Professor/Jacksonville
FESSLER, RICHARD G., M.D. (University of Chicago)
Associate Professor of Neurological Surgery & Neuroscience
FRIEDMAN, WILLIAM A., M.D. (Ohio Sate University)
Professor and Professor, Neuroscience
MICKLE, J. PARKER, M.D. (Vanderbilt University)
Professor and Professor, Pediatrics
NGUYEN, TAI QUYEN, M.D. (University of Saigon)
Associate Professor and Associate Chairman/Jacksonville
REIER, PAUL J., Ph.D. (Case Western Reserve)
Eminent Scholar and Professor of Neuroscience
RHOTON, ALBERT L., JR., M.D. (Washington University)
R.D. Keene Family Professor and Chairman
RITZ, LOUIS A., Ph.D. (University of Florida)
Assistant Professor and
Assistant Professor of Neuroscience

NEUROLOGY

BAUER , RUSSELL, Ph.D. (Pennsylvania State Univ.)
Associate Professor and Associate Professor of Clinical Psychology
BOWERS, DAWN, Ph.D. (University of Florida)
Associate Professor and
Associate Professor of Clinical Psychology
CROSSON, BRUCE A., Ph.D. (Texas Tech Univ.)
Affiliate Associate Professor and
Associate Professor of Clinical Psychology
DESHMUKH, VINOD D., M.D. (India)
Associate Professor/Jacksonville
FENNELL, EILEEN M., Ph.D. (University of Florida)
Associate Professor and Associate Professor of Clinical Psychology
FORMBY, CHARLES C., Ph.D. (Washington University)
Associate Professor and Associate Professor of Communicative Disorders
GILMORE, ROBIN L. (Ohio State Univ.)
Associate Professor of Neurology and Pediatrics
GLASS, J. PETER, M.D. (New York Medical College)
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GONZALEZ-ROTHI, LESLIE, Ph.D. (Univ. of Florida)
Courtesy Associate Professor of Neurology
GREER, MELVIN, M.D. (New York University)
Professor and Chairman of Neurology and Professor of Pediatrics
GUY, JOHN, M.D. (University of Miami)
Assistant Professor and Assistant Professor of Ophthalmology
HAMMOND, EDWARD J., Ph.D. (University of Florida)
Courtesy Assistant Professor
HEILMAN, KENNETH M., M.D. (University of Virginia)
Professor and Director of Neurology, Professor of Clinical Psychology
MARIA, BERNARD L., M.D. (University of Sherbrooke)
Affiliate Visiting Associate Professor and Visiting Associate Professor of Pediatrics
MUSELLA, LILLI, Ph.D. (McGill University)
Assistant Professor
NADEAU, STEPHEN, M.D. (University of Florida)
Associate Professor
ROSS, JOHN J., M.D. (Harvard Medical School)
Professor and Professor of Pediatrics
RUSSO, LOUIS S., JR., M.D. (New York University)
Professor and Associate Chairman/Jacksonville
SCHMIDT, RICHARD P., M.D. (Univ. of Louisville)
Visiting Professor; VA Distinguished Physician in Neurology
UTHMAN, BASIM M., M.D. (American University of Behruit)
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VALENSTEIN, EDWARD, M.D. (Albert Einstein)
Professor and Chief of Neuromuscular Service
WATSON, ROBERT T., M.D. (University of Florida)
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WILDER, BUNA JOE, M.D. (Duke University)
Professor

NEUROSCIENCE

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ANDERSON, KEVIN J., Ph.D. (Univ. of Kentucky)
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* ANDERSON, PETER A.V., Ph.D.
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* BATTELLE, BARBARA-ANNE, Ph.D. (Syracuse)
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BENNETT, GUDRUN S., Ph.D. (Rockefeller Univ.)
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Research Scientist in Zoology
BOVA, FRANK J., PH. D (Univ. of Florida
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COOPER, BRIAN Y., Ph.D. (University of Iowa)
Assistant Scientist of Neuroscience and
Assistant Professor of Oral Surgery
* DAWSON, WILLIAM W., Ph.D. (F.S.U.)
Professor of Neuroscience;
Professor of Ophthalmology and Physiology

DELASHAW, JOHNNY B., M.D. (Univ. of Washington)
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FESSLER, RICHARD G., M.D., Ph.D. (Univ. of Chicago)
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Associate Professor in Neurosurgery
FLANNERY, JOHN G., Ph.D. (Univ. of California/ Santa Barbara)
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* FREUND, GERHARD, M.D. (J.W. Goethe University)
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FRIEDMAN, WILLIAM A., M.D. (Ohio State University)
Associate Professor of Neuroscience and
Associate Professor of Neurological Surgery
* HEATON, MARIETA B., Ph.D. (N.C. State University)
Professor
* HUNTER, BRUCE E., Ph.D. (University of Florida)
Associate Scientist of Neuroscience
JOHNSON, RICHARD D., Ph.D. (Univ. of Calif. - Davis)
Assistant Professor in Neuroscience and
Assistant Professor in Physiological Sciences
* LEONARD, CHRISTIANA M., Ph.D. (M.I.T.)
Professor of Neuroscience
* LUTTGE, WILLIAM G., Ph.D. (Univ. of Calif.-Irvine)
Professor and Chairman
MacLENNAN, A., JOHN, Ph.D.
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Visiting Assistant Professor of Neuroscience
* MAHAN, PARKER E., D.D.S., Ph.D.
(Emory; Univ. of Rochester)
Professor of Neuroscience and
Professor of Basic Dental Sciences
MARIA, BERNARD L., M.D. (University of Sherbrooke)
Visiting Associate Professor in Neuroscience and
Visiting Associate Professor in Ped. Neurology
MARTIN-ELKINS, CAROL L., Ph.D. (SUNY)
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MIDDLEBROOKS, JOHN C., Ph.D.
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Associate Professor of Surgery
MUIR, DAVID F., Ph.D. (Mount Sinai School of Medicine, NY)
Assistant Professor and Assistant Professor in Pediatrics
* MUNSON, JOHN B., Ph.D. (University of Rochester)
Professor of Neuroscience
NICHOLLS, ROBERT D., Ph.D. (University of Oxford)
Visiting Assistant Professor of Neuroscience
* REEP, ROGER L., Ph.D. (Michigan State University)
Associate Professor of Neuroscience and Physiological Sciences
* REIER, PAUL J., Ph.D. (Case Western Reserve University)
Mark F. Overstreet Professor of Neurological Surgery and Professor of Neuroscience
RITZ, LOUIS A., Ph.D. (University of Florida)
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Assistant Professor of Neurological Surgery
SHAW, GERARD P.J., Ph.D. (University of London)
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SEMPLE-ROWLAND, SUSAN L., Ph.D. (Univ. of Florida)
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STEHOUWER, DONALD J., Ph.D. (Princeton Univ.)
Associate Professor of Neuroscience and
Associate Professor of Psychology
STREIT, W. JAKE, Ph.D. (Med. Sch. of South Carolina)
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SUMNERS, COLIN, Ph.D. (University of Southampton)
Associate Professor of Neuroscience and
Associate Professor of Physiology
* THOMPSON, FLOYD J., Ph.D. (Indiana University)
Associate Professor of Neuroscience and
Graduate Coordinator
* VAN HARTESVELDT, CAROL J., Ph.D. (U. of Rochester)
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Co-Director, Center for Neurobiological Sciences
VICKROY, THOMAS W., Ph.D. (Univ. of Texas)
Assistant Professor in Neuroscience and
Assistant Professor in Physiological Sciences
* VIERCK, CHARLES J., JR., Ph.D. (Univ. of Florida)
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* WALKER, DON W., Ph.D. (Texas Christian University)
Professor of Neuroscience

WIDMER, CHARLES, G., DDS, M.S (State Univ. of New York)
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WILDER, BUNA J., M.D. (Duke)
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OBSTETRICS AND GYNECOLOGY

ABNER, TRACEY S., M.D. (Univ. of South Carolina)
Instructor/Jacksonville
* ABRAMS, ROBERT M., Ph.D., D.D.S. (Univ. of Pa.)
Professor
* BARRON, DONALD H., Ph.D. (Yale University)
Research Professor
BENRUBI, GUY I, M.D. (SUNY-Brooklyn)
Professor/Jacksonville
BUCCIARELLI, RICHARD L., M.D. (Univ. of Michigan)
Affiliate Professor and Professor of Pediatrics
BUHI, WILLIAM C., Ph.D. (University of Florida)
Associate Professor
* CATON, DONALD, M.D. (Columbia University)
Joint Professor and Professor of Anesthesiology
CHAFE, WELDON E., M.D.
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Associate Professor
CHEGINI, NASER, Ph.D. (Univ. of Southampton, Eng.)
Assistant Professor
CLARK, PENELOPE R., Ph.D. (Univ. of Florida)
Assistant Professor
CLARKE, LESLIE L., Ph.D. (Univ. of Florida)
Assistant Research Professor
CULLEN, MARK T., M.D. (Univ. of Cetec, Santo Domingo)
Assistant Professor/Jacksonville
CRUZ, AMELIA C., M.D. (Far Eastern University)
Professor
DELKE, ISAAC, M.D. (Haile Sellassie I Medical School)
Associate Professor/Jacksonville
DOCKERY, J., LEE, M.D. (University of Arkansas)
Professor
DUFF, W. PATRICK, M.D. (Georgetown University)
Professor
EITZMAN, DONALD V., M.D. (University of Iowa)
Affiliate Professor and Distinguished Service Prof. of Ped.
GELDER, MARK S., M.D. (Univ. of Virginia)
Assistant Professor/Jacksonville
HARDT, NANCY S., M.D. (Loyola/Stritch School of Medicine)
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HILL, HUGH M., M.D. (Johns Hopkins)
Professor and Associate Dean for Student and Alumni Affairs
JOHNSON, JOHN W. C. JR., M.D. (Univ. of Virginia)
Professor
JONES, JAMES L., M.D. (Univ. of Miami Sch. of Med.)
Instructor/Jacksonville
KALRA, PUSHPA S., Ph.D. (University of Delhi, India)
Professor
* KALRA, SATYA P., Ph.D. (University of Delhi, India)
Professor
KAUNITZ, ANDREW L., M.D. (Columbia University)
Associate Professor/Jacksonville
KELLNER, KENNETH R., M.D., Ph.D. (SUNY-Downstate)
Associate Professor
McLEAN, FREDERICK W., M.D. (Marquette Univ.)
Associate Professor
* MAHAN, CHARLES S. JR., M.D. (Northwestern Univ.)
Professor
MARTIN, DAVID A., M.D. (Indiana University)
Assistant Professor
MASTERSON, BYRON J., M.D. (Washington University)
Professor and Chairman
MORGAN, LINDA S., M.D. (Med. Col. of Pennsylvania)
Associate Professor
NUSS, ROBERT C., M.D. (Jefferson Medical College)
Professor and Division Chief/Jacksonville
RICHARDS, DOUGLAS S., M.D. (University of Utah)
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OPHTHALMOLOGY

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* DAWSON, WILLIAM W., Ph.D. (Florida State Univ.)
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Assistant Professor
FRIEDMAN, SCOTT M., M.D. (University of Missouri)
Assistant Professor
GUY, JOHN, M.D., (University of Miami)
Associate Professor
HALPERN, JESSE I., M.D. (State Univ. of New York)
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HAMED, LATIF M., M.D. (Indiana Univ. School of Med.)
Assistant Professor
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Professor and Eminent Scholar
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Professor and Eminent Scholar
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Associate Scientist
LESSNER, ALAN M., M.D. (Albany Medical College)
Assistant Professor
MAMES, ROBERT N., M.D. (Univ. of Michigan)
Assistant Professor
MARGO, CURTIS E., M.D. (Emory Univ. School of Med.)
Professor, Daniels Professorship
McDOWELL, J., HUGH, Ph.D. (Florida State University)
Associate Scientist
RUBIN, MELVIN L., M.D. (Univ. of Calif-San Francisco)
Eminent Scholar and Chairman
SHERWOOD, MARK B., M.D. (Manchester Univ.,
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STERN, GEORGE A., M.D. (U.C.L.A.)
Professor

ORTHOPAEDICS

CHIDGEY, LARRY K., M.D. (Univ. of South Florida)
Assistant Professor
DELL, PAUL C., M.D. (University of Florida)
Professor
* ENNEKING, WILLIAM F., M.D. (University of Wisconsin)
Distinguished Service Professor Emeritus
GEAREN, PETER F., M.D. (Loyola-Stritch Med. School)
Associate Professor
INDELICATO, PETER A., M.D. (N.Y. Medical College)
Professor
KALEN, VICKI, M.D. (Temple Univ.)
Associate Professor
KOPACH, KATHLEEN, M.D. (Penn. State Univ.)
Assistant Professor/Jacksonville
MACMILLAN, MICHAEL, M.D. (Univ. of North Carolina)
Assistant Professor
McFARLAND, EDWARD G., M.D. (Univ. of Louisville)
Assistant Professor

MILLER, GARY J., Ph.D. (University of Florida)
Associate Professor/Bioengineering
PERRY, JAMES M., M.D. (University of Florida)
Assistant Professor/Jacksonville
PETTY, R. WILLIAM, M.D. (University of Arkansas)
Professor and Chairman
SCARBOROUGH, MARK T., M.D. (Univ. of Florida)
Assistant Professor
SCARBOROUGH, NELSON L., M.D. (Med. Col. of Ga,)
Assistant Professor
SPANIER, SUZANNE S., M.D. (University of Florida)
Associate Professor
VANDERGRIEND, ROBERT A., M.D. (Univ. of Florida)
Associate Professor
WRIGHT, THOMAS W., Jr., M.D. (Univ. of Florida)
Assistant Professor

OTOLARYNGOLOGY

* CASSISI, NICHOLAS J., D.D.S., M.D. (Univ. of Miami)
Professor and Chairman
Professor of Oral Surgery and Dentistry
DIMITROV, EVA A., M.D. (Univ. of Colorado)
Assistant Professor
ISAACS, JOHN, JR., M.D. (Abraham Lincoln School of Med.)
Associate Professor and Chief/Jacksonville
KNOX, GLENN W., M.D. (Rutgers)
Assistant Professor/Jacksonville
MIDDLEBROOKS, JOHN C., Ph.D. (Univ. of California)
Associate Professor of Otolaryngology and Neuroscience
* SINGLETON, GEORGE T., M.D. (Baylor University)
Professor
STRINGER, SCOTT P., M.D. (Univ. of Southwestern Texas)
Assistant Professor

PATHOLOGY AND LABORATORY MEDICINE

ATKINSON, MARK A., Ph.D. (Univ. of Florida)
Assistant Professor
* BAER, HERMAN, M.D. (University of Basel, Switzerland)
Director of Clinical Microbiology; Director of Autopsy and
Professor of Pathology and Immunology and
Medical Microbiology

BERTHOLF, MARSHA G., M.D. (Univ. of North Carolina)
Assistant Professor
BERTHOLF, ROGER L., M.D. (Univ. of Virginia)
Assistant Professor
* BRAYLAN, RAUL C., M.D. (Buenos Aries Medical School)
Professor and Director of Flow Cytometry Core Laboratory and Hemapathology
* CRANDALL, CATHERINE A., Ph.D. (Purdue University)
Professor
* CROKER, BYRON P., JR., M.D., Ph.D. (Duke University)
Associate Professor and Chief of Laboratory Services/VAMC
DOLSON, DAVID J., M.D. (Univ. of Florida)
Assistant Professor
* DONNELLY, WILLIAM H., JR., M.D. (University of Ottawa)
Professor and Professor of Pediatrics
GOODENOW, MAUREEN M., Ph.D. (Albert Einstein Col.)
Assistant Professor
* GRAMS, RALPH R., M.D. (University of Minnesota)
Professor
* HACKETT, RAYMOND L., M.D. (Univ. of Vermont)
Professor; Associate Chairman and Director of Administration and Education
HARDT, NANCY S., M.D. (Loyola U. Stritch Sch. of Med.)
Assistant Professor
HARDY, NED M., M.D. (University of Florida)
Associate Professor/Jacksonville
HOOD, C., IAN, M.B., Ch.B. (University of Liverpool)
Professor Emeritis
JONG, SONGMUH J., Ph.D., (Rockefeller Univ.)
Assistant Professor
* KAO, KUO-JANG, M.D., Ph.D.
(National Taiwan Univ.; Duke)
Associate Professor and Director of Blood Bank
KASTERN, WILLIAM H., Ph.D. (Marquette Univ.)
Assistant Professor
KHAN, SAEEDUR R., Ph.D. (Univ. of Florida)
Associate Professor
KITCHENS, CRAIG, M.D. (University of Florida)
Professor and Professor of Medicine
* KLEIN, PAUL A., Ph.D. (University of Florida)
Professor and Director of Hybridoma Core Laboratory
* MACLAREN, NOEL K., M.B., Ch.B. (University of Otago)
Professor of Pathology and Pediatrics and Chairman of Pathology and Laboratory Medicine
MASOOD, SHAHLA, M.D. (Shiraz U. Sch. of Med., Iran)
Associate Professor/Jacksonville
McCORMACK, WAYNE T., Ph.D. (Florida State Univ.)
Assistant Professor
MONTEIRO, CARMELA, M.D.
(Univ. do Estado da Guanabara)
Assistant Professor/Jacksonville
* MOSCOVICI, CARLO, Ph.D. (University of Rome)
Professor of Pathology and Immunology and Medical Microbiology/VAMC
* MOSCOVICI, M. GIOVANNELLA, Ph.D. (Univ. of Rome)
Associate Professor
* NORMANN, SIGURD J., M.D., Ph.D. (Univ. of Wash.)
Professor and Chief of Cardiac Pathology
OSTROWSKI, MARY L., M.D. (Tufts University)
Assistant Professor/Jacksonville
* PECK, AMMON B., Ph.D. (University of Wisconsin)
Professor and Director of Pathobiology
PIERSON, K. KENDALL, M.D. (New York University)
Prof. and Assoc. Chairman; Chief of Anatomical Pathology
POTTS, WAYNE K., Ph.D. (Univ. of Washington)
Assistant Scientist
RAND, KENNETH H., M.D. (Stanford University)
Associate Professor of Pathology, Immunology and Medical Microbiology, and Dir. of Clinical Microbiology and Virology and Acting Medical Director of Clinical Labs
RHATIGAN, RONALD M., M.D. (University of Iowa)
Professor and Associate Chairman of Jacksonville Programs/Jacksonville
RILEY, WILLIAM J., M.D. (University of Kentucky)
Professor and Director of Clinical Chemistry
SALEH, HUSAIN A., M.D. (Damascus Univ.)
Assistant Professor/Jacksonville
* SCORNIK, JUAN C., M.D. (Univ. of La Plata, Argentina)
Professor and Chief of Immunogenetics
SHE, JIN-XIONG, Ph.D. (Academie De Montpelier)
Visiting Assistant Professor
SMITH, LINDA J., Ph.D. (University of Texas-Austin)
Assistant Professor of Pathology and Director of Molecular Diagnostic Laboratories

SMITH, RICHARD T., M.D. (Tulane University)
Professor
TUNG, YAO-TSUNG (FRANK), Ph.D. (Univ. of Tennessee)
Visiting Assistant Professor
VILLAS, BRUCE H., M.D. (UMDNJ/Rutgers)
Assistant Professor/Jacksonville
WAKELAND, EDWARD K., Ph.D. (University of Hawaii)
Professor & Director of the Center for Mammalian Genetics
WILKINSON, EDWARD J., M.D. (Marquette University)
Professor
WINTER, WILLIAM E., M.D. (Loyola University)
Associate Professor
ZANDER, DANI S., M.D. (Univ. of Florida)
Assistant Professor

PEDIATRICS

General Pediatrics

BAILEY, DAVID W., M.D. (McGill University)
Clinical Associate Professor/Jacksonville
BENTON, JANE, M.D. (Univ. of South Florida
Visiting Assistant Professor/Jacksonville
DABROW, SHARON M., M.D. (Boston University)
Visiting Assistant Professor
DAVID, J.K., M.D. (Duke Univ.)
Clinical Professor/Jacksonville
DEBUSK, FRANKLIN L., M.D. (Johns Hopkins)
Professor
DUMONT-DRISCOLL, MARILYN C., M.D., Ph.D.
(Albany Medical College)
Assistant Professor
GONZALEZ, REGINO P., M.D. (Univ. Central del Este)
Instructor
GOUDARZI, TAJVAR, M.D. (Tehran Medical School)
Assistant Professor/Jacksonville
ISART, FERNANDO A., M.D.
(Autonomous Univ. of Central Amer.- Costa Rica)
Assistant Professor
MADDEN, MITCHELL, M.D. (Univ. of Florida)
Instructor
MAULDIN, OLIN, M.D. (Univ. of Mississippi)
Visiting Clinical Assistant Professor/Jacksonville
MEHN, MARY A., Ph.D. (University of Florida)
Visiting Assistant Professor
NACKASHI, JOHN A., M.D. (University of Florida)
Associate Professor
SOLER, GLADYS P., M.D. (University of Havana)
Assistant Professor and Chief/Jacksonville
WEBER, F. THOMAS, M.D. (University of Cincinnati)
Associate Professor and Chief
WHITWORTH, JAY M., M.D. (Indiana University)
Associate Professor/Jacksonville

Cardiology

BAYNE, EDWARD J., M.D. (Medical College of Virginia)
Assistant Professor/Jacksonville
EPSTEIN, MICHAEL, M.D. (Univ. of Texas-Galveston)
Associate Professor and Chief
GESSNER, IRA H., M.D. (University of Vermont)
Eminent Scholar
HOLMES, GERARD , M.D., Ph.D. (Med. Col. of Georgia)
Assistant Professor
MARANGI, DONALD, M.D. (FarEastern Univ)
Assistant Professor/Jacksonville
MARVIN, WILLIAM J., JR., M.D. (University of Iowa)
Associate Professor/Jacksonville
MILLER, ROBERT, M.D. (University of Florida)
Professor and Division Chief/Jacksonville
SCHIEBLER, GEROLD L., M.D., Ph.D. (Harvard Univ.)
Professor and Associate Vice President for
Health Affairs for External Relations
VICTORICA, BENJAMIN E., M.D. (U. of Cuyo, Argentina)
Professor

Critical Care

DENICOLA, LUCIAN, M.D. (Columbia University)
Associate Professor/Jacksonville
KISSOON, NIRANJAN, M.D. (Univ. of the West Indes)
Visiting Associate Professor/Jacksonville

Endocrinology

DARMAUN, DOMINIQUE, M.D., (Univ. of Paris)
Visiting Associate Professor/Nemours/Jacksonville
HAYMOND, MOREY W., M.D. (Washington University)
Professor and Associate Chairman/Jacksonville/Nemours
ROSENBLOOM, ARLAN L., M.D. (Univ. of Wisconsin)
Professor and Chief
SCHATZ, DESMOND A. (Univ. of Witwatersrand)
Assistant Professor
SILVERSTEIN, JANET, M.D. (University of Pennsylvania)
Professor

Epidemiology and Biostatistics

CANTOR, ALAN B., Ph.D. (University of South Carolina)
Associate Professor
KRISCHER, JEFFREY P., Ph.D. (Harvard University)
Professor and Chief
POLLOCK, BRADLEY H., Ph.D. (Univ. of California)
Assistant Scientist

Gastroenterology

ANDRES, JOEL M., M.D. (Suny-Buffalo)
Professor and Chief
NOVAK, DONALD A., M.D. (Univ. of South Florida)
Assistant Professor

Genetics

BROWN, ROBERT C., M.D. (Univ. Aut. D.E. Guadalahara)
Assistant Professor and Medical Director, Sunland
DRISCOLL, DANIEL J., M.D., Ph.D. (Albany Med. College)
Assistant Professor
WALLACE, MARGARET, Ph.D. (Indiana Univ.)
Assistant Professor
WILLIAMS, CHARLES A., M.D. (University of Florida)
Associate Professor and Chief
ZACKOWSKI, JOLEEN, Ph.D. (University of Delaware)
Visiting Assistant Professor
ZORI, ROBERTO T., M.D. (Odense University - Denmark)
Assistant Professor

Hematology

CASSANO, WILLIAM E., M.D. (Duke University)
Assistant Professor
GAZITT, YAIR, Ph.D. (Hebrew Univ. of Jerusalem)
Visiting Assistant Professor
GRAHAM-POLE, JOHN, M.D.,
(St. Bartholomews Hospital, London)
Professor & Associate Director
GROSS, SAMUEL, M.D. (University of Rochester)
Professor and Chief
KEDAR, AMOS, M.D. (Hebrew University - Israel)
Assistant Professor
MEHTA, PAULETTE S., M.D. (University of Louvain)
Professor
* PITEL, PAUL A., M.D. (Brown University)
Assistant Professor/Jacksonville/Nemours

Immunology, Infectious Diseases, and Allergy

* AYOUB, ELIA M., M.D. (American Univ. of Beirut)
Professor and Chief
BARRETT, DOUGLAS, M.D. (University of South Florida)
Professor and Chairman
HORIKAMI, SANDRA M., Ph.D. (Vanderbilt University)
Assistant Scientist
HUANG, SHIH-WEN, M.D. (National Taiwan Univ.)
Professor
MOYER, SUE A., Ph.D. (Columbia University)
Professor
PARYANI, SHARON, M.D. (University of Florida)
Associate Professor and Chief/Jacksonville
RATHORE, MOBEEN, M.D. (King Edward's Medical College)
Assistant Professor/Jacksonville
REUMAN, PETER, M.D. (Univ. Chicago)
Assistant Professor
SLEASMAN, JOHN, M.D. (Univ. of Tennessee)
Assistant Professor

Neonatology

ALANA, CARLOS, M.D. (Univ. de Montemorelos)
Assistant Professor/Jacksonville
BEHNKE, MARYLOU, M.D. (University of Florida)
Associate Professor
BUCCIARELLI, RICHARD, M.D. (University of Michigan)
Professor and Associate Chairman
BURCHFIELD, DAVID J., M.D. (Univ. of South Florida)
Assistant Professor
CARZOLI, RONALD P., JR., M.D. (University of Michigan)
Assistant Professor/Jacksonville
CHIU, THOMAS T. W., M.D. (Univ. of Hong Kong)
Associate Professor and Chief/Jacksonville
COOPER, REBECCA, M.D.
(State Univ. of N.Y. Downstate Med. Ctr.)
Assistant Professor/Jacksonville
CUEVAS, DANILO C., M.D. (Far Eastern University)
Assistant Professor/Jacksonville
CUEVAS, LILLY L., M.D. (Far Eastern University)
Assistant Professor/Jacksonville
* DRUMMOND, WILLA H., M.D. (Univ. of Pennsylvania)
Professor
EITZMAN, DONALD V., M.D. (Univ. of Iowa)
Distinguished Service Professor
ENGELHARDT, ELIZABETH, M.D. (Washington Univ.)
Clinical Assistant Professor
EYLER, FONDA, Ph.D. (Univ. of Florida)
Assistant Professor
FREEDMAN, STEVE A., Ph.D. (Florida State Univ.)
Associate Professor and Director
GARRISON, R. DONALD, M.D. (Univ. of North Carolina)
Associate Professor/Jacksonville
HUTCHINSON, ALASTAIR A., M.B.Ch.B.
(Univ. of Aberdeen, Scotland)
Associate Professor
KNIGHT, MATTHEW, M.D. (Univ. of Iowa)
Assistant Professor
LILLY, VAN S., M.D. (Med. Univ. of South Carolina)
Assistant Professor/Jacksonville
LIM, MARY O., M.D. (Far Eastern University)
Associate Professor/Jacksonville
MANTILLA, GONZALO, JR., M.D. (Central Univ./
Equador)
Clinical Assistant Professor
MARTINEZ-COLON, MARIA, M.D. (Univ. of Puerto Rico)
Clinical Instructor/Jacksonville
NEU, JOSEF, M.D. (Univ. of Wisconsin)
Associate Professor
OTERO, LEWIS, M.D. (Univ. of Puerto Rico)
Assistant Professor/Jacksonville
RAWLINGS, D. JAMES, M.D. (University of Utah)
Associate Professor/Jacksonville
* RESNICK, MICHAEL B. (University of Florida)
Associate Professor
REYES-LEE, MARTHA E., M.D. (Univ. of El Salvador)
Assistant Professor/Jacksonville
ROTH, JEFFREY, Ph.D. (University of Florida)
Assistant Scientist
SHARMA, RENU, M.B.B.S. (H.P. Medical College, Simla)
Assistant Professor/Jacksonville
VAUGHN, ARTHUR J., III, M.D. (Ohio State University)
Assistant Professor/Jacksonville

Nephrology

FENNELL, ROBERT S., III, M.D. (Univ. of Florida)
Professor/Director of Pediatrics Dialysis Unit
LEVIN, SIDNEY, M.D. (Baylor)
Professor and Program Director/Jacksonville/Nemours
NEIBERGER, RICHARD, M.D. (Univ. of Louisville)
Assistant Professor
RICHARD, GEORGE A., M.D. (Univ. of Pittsburg)
Professor and Associate Chairman
TOLAYMAT, ASAD, M.D. (Damascas School of Medicine)
Associate Professor and Chief/Jacksonville

Neurology

MARIA, BERNARD L., M.D. (Univ. of Sherbrooke-Canada)
Visiting Associate Professor and Chief
ROSS, JOHN J., M.D. (Harvard University)
Professor

Pediatric Research

KUTSCHE, LYNN, M.D. (University of Michigan)
Associate Professor
* VAN MIEROP, L.H.S., M.D. (St. Univ. of Leiden)
Graduate Research Professor

Pulmonary

CHESROWN, SARAH, M.D. (Med. College of Virginia)
Associate Professor
SALLENT, JORGE A., M.D.
(Universidad Nacion Pedro Henriquez)
Clinical Assistant Professor
STECENKO, ARLENE A. , M.D.
(Univ. of Manitoba, Winnipeg, Canada)
Associate Professor and Chief
VISNER, GARY, D.O. (Michigan State Univ.)
Assistant Professor
WOZNIAK, JOHN A., Ph.D. (University of Florida)
Assistant Scientist

PHARMACOLOGY AND THERAPEUTICS

* BAKER, STEPHEN P., Ph.D. (University of Aston)
Professor and Chairman
* CREWS, FULTON T., Ph.D. (University of Michigan)
Professor
* GARG, LAL C., Ph.D. (University of Florida)
Professor
* GUZMAN, NICOLAS J., M.D.
(Cayetano Heredia University, Peru)
Assistant Professor
* KEM, WILLIAM R., Ph.D. (University of Illinois)
Professor
* MAREN, THOMAS H., M.D. (Johns Hopkins)
Graduate Research Professor
* MEYER, EDWIN M., Ph.D. (Massachusetts Inst. of Tech.)
Associate Professor
* MUTHER, THOMAS F., Ph.D. (Leeds University)
Associate Professor
* NEIMS, ALLEN H., M.D., Ph.D. (Johns Hopkins Univ.)
Professor and Dean, College of Medicine;
Professor of Pediatrics
* ROSS, WARREN E., M.D. (University of Florida)
Professor and Executive Associate Dean
* ROWE, THOMAS C., Ph.D. (University of Florida)
Associate Professor
* SCARPACE, NIHAL T., Ph.D. (Hacettepe Univ., Turkey)
Assistant Professor
* SCARPACE, PHILIP J., Ph.D. (Univ. of Rochester)
Associate Professor
* SHIVERICK, KATHLEEN T., Ph.D. (Univ. of Vermont)
Professor
* SILVERMAN, DAVID N., Ph.D. Columbia University)
Professor and Professor of Biochemistry and
Molecular Biology
* TU, CHINGKUANG, Ph.D. (University of Miami)
Associate Scientist

PHYSIOLOGY

* ANDERSON, PETER A., Ph.D.
(St. Andrews Univ., Scotland)
Associate Professor
* CASSIN, SIDNEY, Ph.D. (Univ. of Texas-Galveston)
Professor
* FREGLY, MELVIN J., Ph.D. (University of Rochester)
Graduate Research Professor
* GERENCSER, GEORGE A., Ph.D. (Indiana University)
Professor
* JAEGER, MARC J., M.D. (Univ. of Berne, Switzerland)
Professor
* OTIS, ARTHUR B., Ph.D. (Brown University)
Professor Emeritus
* PHILLIPS, M. IAN, D.Sc. (Univ. of Birmingham, England)
Professor and Chairman
* POSNER, PHILIP, Ph.D. (SUNY-Downstate)
Professor
* RAIZADA, MOHAN K., Ph.D. (Univ. of Kanpur, India)
Professor
* STAINSBY, WENDELL N., Sc.D. (Johns Hopkins Univ.)
Professor
* STEVENS, BRUCE R., Ph.D. (U. of Calif.-Los Angeles)
Associate Professor

* SUMNERS, COLIN, Ph.D. (U. of Southampton, England)
Associate Professor
* WOOD, CHARLES E., Ph.D. (U. of Calif.-San Francisco)
Associate Professor

PSYCHIATRY

BARNARD, GEORGE W., M.D. (Univ. of North Carolina)
Professor and Chief Forensic Psychiatry
* BLASHFIELD, ROGER K., Ph.D. (Indiana University)
Professor of Clinical Psychology in Psychiatry and
Professor of Clinical Psychology
BURKET, ROGER C., M.D. (The George Washington Univ.)
Assistant Professor
BUSSING, REGINA, M.D. (Justus Liebig Univ., Giessen)
Assistant Professor
DELGADO, EMILIANO, M.D. (Havana University)
Clinical Instructor/Jacksonville
DEVANE, C. LINDSAY, Pharm. D. (Mercer University)
Associate Professor of Pharmacy Practice in Psychiatry
and Associate Professor of Pharmacy Practice/
Division of Pharmacokinetics
EVANS, DWIGHT L., M.D. (Temple Univ.)
Professor and Chairman
GAROFALAKIS, MARY S., M.A. (University of Florida)
Assistant in Psychiatry
GEFFKEN, GARY, Ph.D. (Univ. of Florida)
Assistant Professor of Clinical Psychology in Psychiatry
GOBLE, LARRY K., M.S.W. (Ohio State University)
Associate in Psychiatry
GORDON, RICHARD E., M.D., Ph.D. (Univ. of Michigan)
Associate Professor Emeritus
GREER, RICHARD A., M.D. (Univ. of Florida)
Assistant Professor
HARRIS, HOPE E., Ph.D. (Univ. of Florida)
Assistant in Psychiatry
HERBLY, HAZEM, M.D. (Aleppo Univ. Medical School)
Visiting Assistant Professor/Jacksonville
HERJANIC, MARIJAN, M.D. (Univ. of Zagreb, Yugoslavia)
Professor and Chief/VAMC
HERKOV, MICHAEL J., Ph.D. (Auburn University)
Assistant Professor of Clinical Psychology
in Psychiatry
HILL, SUSAN M., RN, MSN, ARNP (Florida State Univ.)
Associate in Psychiatry
HODGIN, JON D., M.D. (Univ. of N. Carolina)
Associate Professor
* JOHNSON, SUZANNE B., Ph.D. (SUNY-Stony Brook)
Professor of Clinical Psychology in Psychiatry,
Professor of Clinical Psychology, and Professor of
Pediatrics
KEMPH, JOHN P., M.D. (Ohio State University)
Professor and Chief of Child Psychiatry
* KULDAU, JOHN M., M.D. (Case Western Reserve)
Professor and Director of Education
MANDOKI, MIGUEL, M.D. (Univ. Autonoma de Mexico)
Assistant Professor and Chief/Jacksonville and
Assistant Professor of Pediatrics/Jacksonville
MARCHESE, MICHAEL J., M.D. (Columbia University)
Assistant Professor and Chief, Shands Inpatient Unit
MARTIN, CAMILO, M.D.
(Univ. of Autonoma de Santo Domingo)
Assistant Professor/VAMC
MATTHEWS, KATINA A., M.D. (St. George's University)
Assistant Professor/Jacksonville and
Assistant Professor of Pediatrics/Jacksonville
MAURER, RALPH G., M.D. (Yale University)
Associate Professor and Chief, Child Inpatient Service
McELROY, ROSS A., JR., M.D. (Univ. of Texas)
Associate Professor and Chief, Adult Out-patient Clinic
MILLER, ERNEST C., M.D. (Tulane University)
Clinical Assistant Professor and Associate Chairman/
Jacksonville
MORRIS, MARY K., Ph.D. (Univ. of Florida)
Assistant Scientist in Psychiatry
MUNIZ, CARLOS E., M.D. (Havana Univ. Med. Center)
Professor
MYERS, WADE C., M.D. (Temple University)
Assistant Professor
* PLUTZKY, MAX, M.D. (Havana Univ. Medical Sch.)
Professor and Chief, Consultation/Liaison Service
and Professor of Clinical Psychology
RAND, COLLEEN S. W., Ph.D. (Stanford University)
Associate Scientist in Psychiatry
ROBBINS, MARILYN J., B.S. (Iowa State University)
Associate in Psychiatry

RUFFIN, WILLIAM C., JR., M.D. (Univ. of North Carolina)
Professor, Assistant Dean and Chief of Staff, Shands Hospital
STEWART, JONATHAN T., M.D. (Univ. of South Florida)
Associate Professor/VAMC
SZLABOWICZ, JERZY W., M.D.
(Acad. of Med., Gdansk, Poland)
Assistant Professor/VAMC
TUETH, MICHAEL J., M.D. (Univ. of Illinois)
Assistant Professor
VERA, MARIA I., M.S.W., Ph.D. (Florida State Univ.)
Assistant Professor of Social Work in Psychiatry
* VOELLER, KYTJA K.S., M.D. (Columbia Univ.)
Associate Professor of Neurology in Psychiatry
WALDMAN, ALAN J., M.D. (Case Western Reserve)
Assistant Professor
WARE, MICHAEL, M.D. (Eastern Va. Medical School)
Assistant Professor

RADIATION ONCOLOGY

AMORNMARN, RUMPA, M.D. (Siriraj Med. School)
Associate Professor/Jacksonville
* BOVA, FRANCIS J., Ph.D. (Univ. of Florida)
Associate Professor
CRAIG, RENE, M.S. (Georgia Institute of Technology)
Assistant in Radiology
EWALD, LINDA M., M.S. (Univ. of Florida)
Assistant in Radiology
FITZGERALD, LAWRENCE T., Ph.D. (Univ. of Florida)
Associate Professor
FREEMAN-LEMAIRE, DEBRA, M.D. (Univ. of Florida)
Assistant Professor
KALBAUGH, KEVIN J., M.S. (Univ. of Florida)
Assistant in Radiology
MARCUS, ROBERT B., JR., M.D. (Univ. of Florida)
Professor
McCOLLOUGH, W. MARK, M.D. (Univ. of Florida)
Assistant Professor
MENDENHALL, NANCY P., M.D. (Univ. of Florida)
Associate Professor
MENDENHALL, WILLIAM M., M.D. (U. of South Florida)
Associate Professor
* MILLION, RODNEY R., M.D. (Indiana University)
Professor and Chairman
MITCHELL, THOMAS P., M.S. (Louisiana Poly. Univ.)
Assistant in Radiology
PARSONS, JAMES T., M.D. (Duke University)
Associate Professor
PREMPREE, THONGBLIEW, M.D., Ph.D.
(Sariraj Med. Sch., Thailand)
Professor and Associate Chairman/Jacksonville
SOMBECK MICHAEL D. (Southern Illinois Univ.)
Assistant Professor

RADIOLOGY

ABBITT, PATRICIA L., M.D. (Tufts Univ.)
Associate Professor
* AGEE, O. FRANK, M.D. (L.S.U.-New Orleans)
Professor
* ANDREW, E. RAYMOND, Ph.D. (Cambridge, England)
Graduate Research Professor
BIDGOOD, W. DEAN, JR., M.D. (University of Florida)
Assistant Professor, Director, MRI/VAMC
BRADSHAW, JAMES A., M.D. (Med. Col. of Virginia)
Clinical Associate Professor/Jacksonville

BRATEMAN, LIBBY, Ph.D. (University of Florida)
Associate Professor
BRIGGS, RICHARD W., Ph.D. (University of Arkansas)
Associate Professor
BURTON, SHARON S., M.D. (Univ. of N.C. - Chapel Hill)
Assistant Professor/VAMC
BUSH, CHARLES H., M.D. (Mount Sinai)
Assistant Professor
BUTLER, ROBERT T., JR., M.D, Ph.D (Medical Univ. of South Carolina)
Assistant Professor/Jacksonville
CLAYMAN, DAVID A., M.D. (Wright State Univ.)
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CLORE, FORREST C., M.D. (University of Michigan)
Associate Professor/VAMC
COUCH, MARGARET W., Ph.D. (University of Florida)
Assistant Research Professor/VAMC
CUMMING, WILLIAM A., M.D. (Univ. of Toronto)
Professor
DRANE, WALTER E., M.D. (Emory Univ.)
Professor, Director, Nuclear Medicine
FAGIEN, MICHAEL, M.D. (Univ. of Florida)
Assistant Professor and Chief, Nuclear Medicine/VAMC
FELMAN, ALVIN H. M.D. (Univ. of Cincinnati)
Clinical Professor/Jacksonville
FITZSIMMONS, JEFFREY R., Ph.D. (Univ. of Fla.)
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FOTOPOULOS, JOHN P., M.D. (Tufts University)
Professor/Jacksonville
GRANTHAM, JAMES R., M.D. (Univ. of Virginia)
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HAWKINS, IRVIN F., JR., M.D. (University of Maryland)
Professor and Chief, Interventional Radiology
HAYDEN, FRANK R., JR., M.D. (Univ. of South Florida)
Assistant Professor
HONEYMAN, JANICE C., Ph.D. (Kansas State University)
Assistant Professor
HUDA, WALTER, Ph.D. (University of London)
Associate Professor
KAUDE, JURI V., M.D., Ph.D. (University of Kiel)
Professor
KESLAR, PAULA J., M.D. (University of Pittsburgh)
Assistant Professor
KUPERUS, JOHN H., M.S., R.Ph. (Univ. of Calif.-L.A.)
Radiopharmacist
LANIER, LINDA, M.D. (University of Florida)
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MANCUSO, ANTHONY A., M.D. (University of Miami)
Professor
MAO, JINTONG, Ph.D. (Univ. of Florida)
Assistant Professor/VAMC
MARECI, THOMAS H., Ph.D. (Oxford, England)
Associate Professor
MASTIN, SUZANNE T., M.D. (Univ. of Florida)
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MAUDERLI, WALTER, D.Sc. (Fed. Inst. of Technology)
Professor Emeritus
McLELLAN, GAREY L., M.D. (Univ. of Texas-Galveston)
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MLADINICH, CHRIS, D.V.M. (Univ. of Georgia)
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MONTGOMERY, WILLIAM J., M.D. (U. of Chicago)
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MURRAY, KEVIN K., M.D. (Univ. of South Florida)
Assistant Professor
NORTHUP, H. MARTIN, M.D. (Univ. of Arkansas)
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PETERS, KEITH R., M.D. (Univ. of Virginia)
Assistant Professor
PETTIGREW, JAMES C., JR., D.M.D. (Univ. of S.C.)
Associate Professor
QUISLING, RONALD G., M.D. (University of Wisconsin)
Professor
ROS, PABLO R., M.D.
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Professor & Director, Abdominal Imaging
SANFORD, E. DONALD, JR., M.S. (University of Alabama)
Assistant in Radiology
* SCOTT, KATHERINE N., Ph.D. (University of Florida)
Professor/VAMC
SHUKLA, SHAILENDRA S., Ph.D. (Ohio State)
Assistant Professor

STAAB, EDWARD V., JR., M.D. (University of Minnesota)
Professor and Chairman
STEINBACH, BARBARA, M.D. (Univ. of Pittsburgh)
Assistant Professor
STEINBACH, JEHUDA, M.D.
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Associate Professor/VAMC
TORRES, GLADYS M., M.D. (Univ. of Puerto Rico)
Assistant Professor
VINES, FREDERICK S., M.D. (University of Virginia)
Professor and Associate Chairman/Jacksonville
WILF, LARRY H., M.D. (Medical College of Penn.)
Assistant Professor and Program Director/Jacksonville
WILLIAMS, JONATHAN L., M.D. (Thomas Jefferson)
Professor and Chief Pediatric Radiology and
Associate Chairman
WYNN, GREGORY C., M.D. (University of South Florida)
Assistant Professor/Jacksonville

SURGERY

Emergency Medicine

AUGENSTEIN, LYNN, M.D. (Ohio State Univ.)
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FUERST, RONNIE S., M.D. (Tulane Univ.)
Assistant Professor
HARWOOD-NUSS, ANN L., M.D. (University of Iowa)
Professor/Jacksonville
HOOD, MARGARET E., M.D. (Univ. of Florida)
Clinical Assistant Professor
IDRIS, AHAMED H., M.D. (Rush Medical College)
Assistant Professor
KUNISAKI, THOMAS, M.D. (Chicago School of Medicine)
Clinical Instructor/Jacksonville
LI, SERGIO, M.D. (University of Miami)
Assistant Professor/Jacksonville
LIGHT, JENNIFER K., M.D. (Univ. of Tenn.)
Assistant Professor
LUTEN, ROBERT C., M.D. (University of Barcelona)
Associate Professor/Jacksonville
MACMATH, TERRY, M.D. (SUNY-Upstate)
Associate Professor/Jacksonville
MELKER, RICHARD J., M.D., Ph.D. (Albert Einstein)
Associate Professor
ORBAN, DAVID J., M.D. (St. Louis University)
Associate Professor and Chief
PETERS, CARL W., M.D. (University of Florida)
Clinical Assistant Professor
RODENBERG, HOWARD D., M.D. (Univ. of Missouri)
Assistant Professor
SANTER, LISA, M.D. (Ohio State Univ.)
Clinical Instructor/Jacksonville
STENKLYFT, PHYLLIS, M.D. (Louisiana State Univ.)
Assistant Professor/Jacksonville
VUKICH, DAVID J., M.D. (University of Colorado)
Associate Professor and Division Chief/Jacksonville
WEARS, ROBERT L. (Johns Hopkins)
Associate Professor/Jacksonville

General Surgery

ALEXANDER, RAYMOND H., M.D. (Duke University)
Professor and Associate Chairman/Jacksonville
BLAND, KIRBY I., M.D. (University of Alabama)
Professor and Associate Chairman
Director, Residency Program
BRUNSON, MATHEW, M.D. (University of Florida)
Assistant Professor
* COPELAND, EDWARD M., III, M.D. (Cornell University)
The Edward R. Woodward Professor and Chairman
DENNIS, JAMES, M.D. (Indiana Univ.)
Assistant Professor/Jacksonville
FALLON, WILLIAM F. JR., (Univ. of Massachusetts)
Associate Professor/Jacksonville
FLYNN, TIMOTHY C., M.D. (Baylor University)
Associate Professor/VAMC, Chief of Surgery/VAMC
FRYKBERG, ERIC R., M.D. (Med. College of Virginia)
Associate Professor/Jacksonville
HARWARD, TIMOTHY RS., M.D. (Duke University)
Assistant Professor
HOCKING, MICHAEL P., M.D. (University of Michigan)
Associate Professor/VAMC

HOWARD, RICHARD J., M.D., Ph.D. (Yale University)
Professor
PFAFF, WILLIAM W., M.D. (Buffalo University)
Professor and Director, Transplantation Program
ROUT, W. ROBERT, M.D. (University of Louisville)
Associate Professor
SANTER, LISA J., M.D. (Univ. of Michigan)
Clinical Instructor/Jacksonville
SEEGER, JAMES M., M.D. (Medical College of Georgia)
Associate Professor/VAMC
SOUBA, WILEY W., JR., M.D. (University of Texas)
Associate Professor
VINSANT, GEORGE O., M.D. (University of Tennessee)
Assistant Professor/Jacksonville
VOGEL, STEPHEN B., M.D. (University of Florida)
Professor
WOODWARD, EDWARD R., M.D. (University of Chicago)
Professor

Pediatric Surgery

BAGWELL, CHARLES E., M.D. (Bowman Gray)
Associate Professor
LANGHAM, MAX, JR., M.D. (Johns Hopkins Sch. of Med.)
Assistant Professor
MAHAFFEY, SAMUEL, M.D. (West Virginia Univ.)
Assistant Professor
MOLLITT, DANIEL L., M.D. (St. Louis University)
Associate Professor/Jacksonville and
Associate Professor of Pediatrics/Jacksonville
TALBERT, JAMES L., M.D. (Vanderbilt)
Professor and Chief and Professor of Pediatrics
TEPAS, JOSEPH J., III, M.D. (Georgetown University)
Professor/Jacksonville and Professor of
Pediatrics/Jacksonville

Plastic and Reconstructive Surgery

BINGHAM, HAL G., M.D. (University of Kansas)
Professor and Chief
CAFFEE, H. HOLLIS, M.D. (University of Florida)
Professor and Chief/VAMC
GLASSMAN, RICHARD D., M.D.
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Associate Professor/Jacksonville
PHILLIPS, JAMES W, M.D. (Univ. of Louisville)
Assistant Professor/Jacksonville
SEAGLE, MICHAEL B., M.D. (Vanderbilt University)
Assistant Professor
YU, LEONARD T., M.D.
(College of Phys. & Surgs., Columbia Univ.)
Assistant Professor

Thoracic and Cardiovascular Surgery

ALEXANDER, JAMES A., M.D. (Duke University)
Professor and Chief and Professor of Pediatrics
CEITHAML, ERIC L., M.D. (Case Western Reserve)
Associate Professor and Chief/Jacksonville
KNAUF, DANIEL G., M.D. (Northwestern University)
Associate Professor
PETERSON, RICHARD J., M.D. (May Medical School)
Assistant Professor/Jacksonville
STAPLES, EDWARD D., M.D. (Univ. of South Florida)
Assistant Professor
VONTZ, FREDERICK, M.D. (Med. Acad., Dusseldorf, Ger.)
Clinical Assistant Professor/Jacksonville

Urology

ALLEN, REGINALD A., M.D. (Univ of Wisconsin)
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COHEN, MARC S., M.D. (Univ. of Texas)
Associate Professor
DRYLIE, DAVID M., M.D. (Bowman Gray)
Professor and Chief
EPSTEIN HOWARD B., M.D. (Univ. of Florida)
Assistant Professor
NEWMAN, ROBERT C., M.D. (Oklahoma University)
Associate Professor
SWARTZ, DOUGLAS A., M.D. (University of Texas)
Assistant Professor and Chief/Jacksonville
WAJSMAN, LEW, M.D. (Hadassah Medical School)
Professor
WALKER, R., DIXON, III, M.D. (University of Miami)
Professor of Surgery and Pediatrics

Courtesy Faculty

ANESTHESIOLOGY

ANDERSON, MARK D., M.D. (Darthmouth)
Clinical Assistant Professor/Orlando
ANDREWS, THOMAS W., M.D. (Univ. of Illinois)
Clinical Assistant Professor/Orlando
ANGERT, KEVIN C., M.D. (Northeastern Ohio Univ.)
Clinical Assistant Professor/Orlando
ARCARIO, THOMAS J., M.D. (Univ of Rochester)
Clinical Assistant Professor/Orlando
BESSER, TIMOTHY P., M.D. (St. Louis Univ.)
Clinical Assistant Professor/Nemours/Jacksonville
BENEKEN, JAN E. W., Ph.D. (State Univ., Utrecht, Holland)
Professor
BRESSON, VICTOR L., M.D. (Univ. of Minnesota)
Clinical Assistant Professor/Orlando
CHAPMAN, ROY L., JR., M.D. (Univ. of Tennessee)
CHEN, SHIRLEY AVIS, M.D. (Univ. of Florida)
Clinical Assistant Professor/Nemours/Jacksonville
Clinical Assistant Professor/Gainesville
COONS, TIMOTHY J., A.S. (Erie Community College)
Assistant in Anesthesiology/Gainesville
DAVIES, DOUGLAS J., M.D. (Univ. of Florida)
Clinical Assistant Professor/Ocala
DAVIS, STEPHEN B., M.D. (Univ of Nebraska)
Clinical Assistant Professor/Orlando
DENISCO, RICHARD A., M.D. (Univ. of Florida)
Clinical Assistant Professor/Winter Park
DESAUTELS, DAVID A., M.P.A. (Nova University)
Assistant in Anesthesiology/Gainesville
DOBSON, CHRISTOPHER E., II, M.D. (Baylor Univ.)
Clinical Assistant Professor/Orlando
DOUGLAS, MICHAL E., M.D. (Univ. of Arizona)
Clinical Assistant Professor/Boone, N.C.
GALLO, JOSEPH A., JR., M.D. (State Univ. of New York)
Clinical Assistant Professor/Orlando
HELFFRICH, RICHARD A., M.D. (Univ of Nevada)
Clinical Assistant Professor/Nemours/Jacksonville
HONSKA, MARK E., (Univ of Oklahoma)
Clinical Assistant Professor/Orlando
HOUSE, JEFFREY T., M.D. (Univ. of Chicago)
Clinical Assistant Professor/Orlando
JAMES, JOHN M., JR., M.D. (Univ. of Florida)
Clinical Assistant Professor/Orlando, FL
KRUSE, JOHN C., M.D. (George Washington University)
Clinical Assistant Professor/Jacksonville
MURRY, IVES P., M.D. (George Washington University)
Clinical Assistant Professor/Denver, CO
NAGEL, EUGENE L., M.D. (Washington University)
Clinical Professor/Winter Haven
PARKER, JERRY A., B.S. (University of Florida)
Assistant in Anesthesiology/Gainesville
RACKSTEIN, ANDREW D., M.D. (Chicago Med. Sch.)
Clinical Assistant Professor/Clearwater
RILEY, JAMES L., M.D. (Loma Linda Univ.)
Clinical Assistant Professor/Orlando
ROSS, NORMAN L., M.D. (University of Miami)
Clinical Instructor/Venice
SAMILGIL SEMRA, M.D. (Univ. of Istanbul)
Assistant Scientist/Gainesville
STEPHENS, PATRICIA CAMPBELL, M.D. (LSU)
Clinical Assistant Professor/Nemours/Jacksonville
STONE, DENNIS R., M.D. (Univ of Miami)
Clinical Assistant Professor/Nemours/Jacksonville
VENUS, BAHMAN, M.D. (University of Jandi)
Clinical Associate Professor/Jacksonville
VOGELHUT, MARK M., M.D. (Univ. of North Carolina)
Clinical Assistant Professor/Tallahassee

COMMUNITY HEALTH AND FAMILY MEDICINE

ACHOLONU, FELIX, M.D. (Downstate Medical Center)
Clinical Associate Professor/Jacksonville
ANDERSON, MERRILL A., M.D. (Thomas Jefferson Univ.)
Clinical Associate Professor/Jacksonville
BEACH, THOMAS B., M.D. (University of Wisconsin)
Clinical Associate Professor/Jacksonville
BIGGERSTAFF, JAMES R., M.D. (Louisiana State Univ.)
Clinical Assistant Professor/Jacksonville/SVMC
BROOKS, J.S. DAVID, M.D. (Dublin University)
Clinical Assistant Professor/Jacksonville
BURKE, CHARLES H., M.D. (Emory University)
Clinical Associate Professor/Jacksonville
BUSH, CLINTON G., M.D. (Columbia University)
Clinical Assistant Professor/Gainesville
CARTER, ANN D., M.D. (Louisiana State University)
Clinical Instructor/Jacksonville
CHAMBON, GREGORY, M.D. (Univ. of Missouri)
Clinical Assistant Professor/Jacksonville
CHITTY, KAREN B., M.D. (Bowman Gray)
Clinical Assistant Professor/Gainesville
CHODOSH, LANCE I., M.D. (Georgetown Univ.)
Clinical Assistant Professor
COOPER, GARY R., M.D. (Tulane University)
Clinical Assistant Professor/Gainesville
DeFORD, JAMES, M.D. (University of Florida)
Clinical Associate Professor/Gainesville
DEROVANESIAN, JACK, M.D. (University of Florida)
Clinical Assistant Professor/Department of Emergency
Medicine, Alachua General Hospital, Gainesville
EAGLSTEIN, N. FRED, D.O.
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Clinical Assistant Professor/Jacksonville
FRIEDLINE, PAUL N., M.D. (Temple University)
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GIBSON, JOHN O., M.D. (Univ. of Texas)
Clinical Assistant Professor/Gainesville

GIURATO, GERALD A., M.D. (Ohio State University)
Clinical Assistant Professor/Jacksonville
HONIGMAN, JOSEPH, M.D. (Jefferson Medical College)
Clinical Professor/Gainesville
HUNSINGER, EDWARD N., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
HUNTER, OREGON K., M.D. (Univ. of California)
Clinical Assistant Professor/Gainesville
JANOUSEK, JAMES M., M.D. (Loyola Univ.)
Clinical Assistant Professor/Live Oak
JERNIGAN, JAMES A., M.D. (Washington Univ.)
Clinical Associate Professor/Gainesville
KURITZKY, LOUIS, M.D. (Medical College of Virginia)
Clinical Assistant Professor/Gainesville
KURZBACH, ELMAR V., M.D. (Univ. Innsbruck, Austria)
Clinical Professor/Jacksonville
LANE, TIMOTHY T., M.D. (Univ. of Florida)
Clinical Assistant Professor
LARIMORE, WALTER L., M.D. (LSU)
Clinical Assistant Professor/Kissimmee
LEVY, NORMAN S., M.D. (Western Reserve University)
Clinical Associate Professor/Lake City
LUETKE, CHARLES W., M.D. (Univ. of Wisconsin)
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MAGILL, MICHAEL K., M.D. (Duke University)
Clinical Associate Professor/Tallahassee
MAYER, GABRIEL, M.D. (Boston Univ.)
Clinical Assistant Professor/Winter Park
McCLOW, MARVIN V., M.D. (University of Iowa)
Clinical Assistant Professor/Jacksonville
McINTOSH, BRUCE J., M.D. (Univ. of Florida)
Clinical Associate Professor/Jacksonville
McKIBBEN, MARGARET M., M.D. (Univ. of South Fla.)
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MEDLEY, EVAN SCOTT, M.D. (University of Kentucky)
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ORR, LOUIS M., JR. M.D. (Emory University)
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RAINS, CAROLINE S., M.D. (University of South Florida)
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ROZBORIL, MICHAEL B., M.D. (Blackburn College)
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RUCINSKI, PAUL J., M.D. (Ross Univ.)
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SHERIN, KEVIN M., M.D. (Loyola Stritch)
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SNIDER, PAUL W., M.D. (Emory Univ.)
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STREIB, GORDON F., M.D. (Columbia Univ.)
Graduate Research Professor/Gainesville
STRINGFELLOW, HART R., Ph.D. (Univ. of Florida
Assistant Professor
TARRANT, DARRELL G., M.D. (University of Kentucky)
Clinical Assistant Professor/Gainesville
UPSHAW, THOMAS S., M.D. (Univ. of Chicago)
Clinical Assistant Professor/Gainesville
VAUGHEN, JUSTINE L., M.D. (Temple University)
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WAGNER, JAMES T., Ph.D. (University of Florida)
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WHITE, DAVID C., Ph.D., M.D. (Tufts University)
Clinical Professor/Tallahassee

Cardiology

ANDERSON, GEORGE A., M.D. (Bowman Gray)
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ANDREWS, JOHN W., M.D. (Emory, University)
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BAKER, ROY M., M.D. (Emory University)
Clinical Professor/Jacksonville
BAKER, SCOTT, M D. (University of Florida)
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BANNON, PATRICK, M.D. (Georgetown University)
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BEACH, THOMAS B., M.D. (University of Wisconsin)
Clinical Associate Professor/Jacksonville
BURNS, MARSHALL A., M.D. (Tulane University)
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CHINOY, DAVID A., M.D. (University of Florida)
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COOPER, GARY R., M.D. (Tulane University)
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DILLON, MICHAEL C., M.D. (Univ. of Kentucky)
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EL SHAHAWY, MAHFOUZ, M.D. (Vienna Med. Sch.)
Clinical Assistant Professor/Sarasota
FLEMING, JACK W., M.D. (Emory University)
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GILBERT, CLARENCE M., M.D. (Univ. of Pennsylvania)
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GILMOUR, KAY E., M.D. (University of Florida)
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GREENWOOD, SCOTT D., M.D. (Washington University)
Clinical Assistant Professor/Orlando Regional Medical Ctr.

GROSS, HOWARD E., M.D. (Univ. of Nebraska)
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HERRADA, RAUL J., M.D.
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HESS, DAVID S., M.D. (Duke University)
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IRA, GORDON H., JR., M.D. (Duke University)
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McINTOSH, HENRY D., M.D. (University of Penn.)
Clinical Professor/Lakeland
LLIFF, BENJAMIN C., Jr., M.D. (Med. Col. of Ga.)
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PARTAIN, JONATHAN O., M.D. (Vanderbilt Univ.)
Clinical Assistant Professor/Orlando Regional Med. Ctr
ROARK, STEVEN F., M.D. (Duke Univ.)
Clinical Assistant Professor/Gainesville
SAHAB, JOSEPH G., M.D. (French Faculty of Medicine)
Clinical Assistant Professor/Leesburg
SCHONBERG, ALLAN, M.D. (George Washington Univ.)
Clinical Assistant Professor/Jacksonville
SEALS, ALLEN A., M.D. (Medical College of Georgia)
Clinical Assistant Professor/Jacksonville
SILVERSTEIN, BURTON V., M.D. (Univ. of Pa.)
Clinical Assistant Professor/Gainesville
SOLER, RAUL D., M.D. (University of Havana)
Clinical Assistant Professor/Jacksonville
TAUSSIG, ANDREW S., M.D. (Emory University)
Clinical Assistant Professor/Orlando
VAN CLEVE, ROBERT B., M.D. (Columbia University)
Clinical Professor/Jacksonville
WAINWRIGHT, W. RANDOLPH, M.D. (Med. Col. of Ga.)
Clinical Assistant Professor/Jacksonville
WEINSTEIN, IRWIN R., M.D. (SUNY-Buffalo)
Clinical Instructor/Orlando
WHITWORTH, HALL B., JR., M.D. (Emory University)
Clinical Assistant Professor/Orlando

Dermatology

BOUDREAUX, CLARENCE E., M.D. (LSU)
Clinical Assistant Professor/Jacksonville
CHILDERS, RICHARD C., M.D. (Univ. of Rochester)
Clinical Assistant Professor/Gainesville
COGNETTA, ARMAND B., M.D. (Univ. of Connecticut)
Clinical Assistant Professor
HESKEL, NEIL S., M.D. (Univ. of Pennsylvania)
Clinical Assistant Professor/Vero Beach
HONIGMAN, JOSEPH, M.D., (Jefferson Medical College)
Clinical Professor/Jacksonville
MILLNS, JOHN L., M.D. (Ohio State University)
Clinical Assistant Professor/Tampa
SLAZINSKI, LEONARD, M.D. (Jefferson Med. Col.)
Clinical Instructor/Sarasota
SMITH, EDWARD W.P., M.D. (Ohio State Univ.)
Clinical Associate Professor/Jacksonville
STOER, CHARLES B., M.D. (Louisiana State University)
Clinical Assistant Professor/Gainesville
TRIMBLE, JAMES W., M.D. (University of Florida)
Clinical Assistant Professor/Jacksonville
UNIS, MARK E., M.D. (Univ. of Florida)
Clinical Instructor/Ft. Lauderdale
WILKERSON, RUTH C., M.D. (Med. Col. of Va.)
Clinical Instructor/Gainesville

Endocrinology and Metabolism

COBLE, YANK D., JR., M.D. (Duke University)
Clinical Professor/Jacksonville
CROCKETT, SAMUEL E., M.D. (Ohio State Univ.)
Clinical Assistant Professor/Orlando Regional Med. Ctr.
KNIZLEY, HOMER, JR., M.D. (University of Florida)
Clinical Associate Professor/Gainesville
LONDONO, JAVIER H., M.D. (University of Antioquia)
Clinical Assistant Professor/Gainesville
MONTGOMERY, CHARLES T., M.D. (Univ. of Miami)
Clinical Associate Professor/Jacksonville
OATES, THOMAS W., M.D. (Ohio State University)
Clinical Assistant Professor/Lakeland
ROBERTS, VICTOR L., M.D.
(Autonomous Univ. Guadalajara)
Clinical Instructor/Orlando Regional Med. Center
THOMAS, WILLIAM C., JR., M.D. (Cornell University)
Clinical Professor

Gastroenterology, Hepatology and Nutrition

BAUMGARTNER, THOMAS G., Pharm. D.
(University of the Pacific)
Clinical Associate Professor/Gainesville
BONE, FRANK C., M.D. (Boston Univ.)
Clinical Assistant Professor/Orlando
BORLAND, JAMES L., JR., M.D. (Johns Hopkins)
Clinical Professor/Jacksonville
BUELOW, ROBERT G., M.D. (Temple University)
Clinical Assistant Professor/Jacksonville
GOLDBERG, LAWRENCE S., M.D. (New York University)
Clinical Assistant Professor/Jacksonville
GROOVER, JACK R., M.D. (University of Maryland)
Clinical Associate Professor/Jacksonville
KANNER, ROBERT S., M.D. (Creighton University)
Clinical Instructor/Jacksonville
KRAMER, DEAN C., M.D. (University of Missouri)
Clinical Associate Professor/Gainesville
LANGFITT MURRY L., M.D. (University of Iowa)
Clinical Assistant Professor/Jacksonville
MORRIS, WALTER E., JR., M.D. (Univ. of Alabama)
Clinical Associate Professor/Jacksonville
SHAH, GAURANG N., M.B.B.S. (Baroda Med. Col., India)
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TEK, HONG TAING, M.D. (Univ. of Phnom-Penh)
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UHLEMANN, EDWARD R., M.D. (Johns Hopkins)
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WIDNER, VICTOR R., M.D. (Kansas Univ. Sch. of Med.)
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Internal Medicine

ANDERSON, RICHARD M., M.D. (Emory University)
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BRASHEAR, BILLY, M.D. (University of Louisville)
Clinical Instructor/Gainesville
COLLINS, MICHAEL, M.D. (Univ. of Miami)
Clinical Assistant Professor/Orlando Regional Med. Center
CUNNINGHAM, RICHARD W., M.D. (Univ. of Florida)
Clinical Assistant Professor/Gainesville
DEAL, WILLIAM B., M.D. (Univ. of North Carolina)
Clinical Professor
EMMEL, G., LEONARD, M.D. (University of Penn.)
Clinical Instructor/Gainesville
FADEM, JEROLD J., M.D. (Univ. of Florida)
Clinical Associate Professor/Orlando
FALK, JAY L., M.D. (SUNY-Brooklyn)
Clinical Associate Professor/Orlando
FRENCH, KATHRYN K., M.D. (Univ. of Tennessee)
Clinical Instructor/Trenton
GAGNIER, DOROTHY R. , Ph.D. (University of Michigan)
Assistant Professor/Gainesville
HALE, WILLIAM E., M.D. (Medical College of Virginia)
Clinical Assistant Professor/Dunedin
HARRISON, L., BARNETT, M.D. (Emory University)
Clinical Assistant Professor/Tallahassee
HOFFMAN, NANNETTE B., M.D. (Albany Medical Col.)
Clinical Assistant Professor/Gainesville
HOLCOMB, ALLEN K., M.D. (Emory Univ.)
Clinical Assistant Professor/Orlando
McCOY, CATHERINE W., M.D. (University of Virginia)
Clinical Instructor/Gainesville
MENGEL, MARVIN C., M.D. (Johns Hopkins)
Clinical Assistant Professor/Orlando
MUDRA, STEPHAN, M D. (University of Florida)
Clinical Instructor/Gainesville
NELSON, JOHN R., M.D. (Bowman Gray)
Clinical Instructor/Gainesville
NOVAK, RUSSELL A., M.D. (University of Nebraska)
Clinical Assistant Professor/Jacksonville
PALMER, ROBERT, JR., M.D. (Tulane University)
Clinical Associate Professor/Pensacola
PICKERING, MICHAEL J., M.D. (University of Florida)
Clinical Associate Professor/Tampa
ROBERT, VICTOR B., M.D. (Buenos Aires Univ.)
Clinical Assistant Professor/Orlando
ROSENBERG, STEPHEN J., M.D. (Univ. of Pennsylvania)
Clinical Associate Professor/Orlando
SAAVEDRA, OSWALD T., M.D. (Moscow Univ.)
Clinical Instructor/Orlando
SLATON, ROBERT C., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
TEW, FRANKLIN T., M.D. (Univ. of North Carolina)
Clinical Assistant Professor/Orlando
VARRAUX, ALAN R., M.D. (Temple Univ.)
Clinical Assistant Professor/Orlando
WEBB, MICHAEL J., M.D. (University of Miami)
Clinical Instructor/Winter Park
WEIGEL, WALTER W., M.D. (Emory University)
Clinical Instructor/Palatka
WELDON, CLIFFORD L., M.D. (Cetec University)
Clinical Instructor/Orlando Regional Med. Center
YOUNG, MARTIN D., Sc.D. (Johns Hopkins)
Research Professor/Gainesville

Hematology

ABRAMSON, NEIL, M.D. (Albert Einstein)
Clinical Professor/Jacksonville
ANDERSON, AXEL, III, M.D. (Univ. of Buffalo)
Clinical Assistant Professor/Orlando Regional Med. Ctr.
BROWN, CLARENCE H., III, M.D. (Emory University)
Clinical Assistant Professor/Orlando Regional Med. Ctr.
DUNN, PHILIP H., M.D. (Duke University)
Clinical Assistant Professor/Orlando Regional Med. Ctr.
MARKS, ALAN R., M.D. (Univ. of Brussels, Belgium)
Clinical Assistant Professor/Jacksonville

PAWLIGER, DAVID F., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
SIDDIQUI, TARIQ, M.D. (Dow Medical College, Pakistan)
Clinical Professor/Jacksonville
TROTTER, GEORGE S., M.D. (University of Maryland)
Clinical Associate Professor/Jacksonville
WHITTINGTON, RICHARD M., M.D. (Jefferson)
Clinical Professor; Assistant Dean for VA Relations

Infectious Disease

BROOKS, ROBERT, G., M.D. (Wayne University)
Clinical Associate Professor/Orlando Regional Med. Ctr.
FLETCHER, JEAN, M.D. (American Univ. of Beirut)
Clinical Assistant Professor/Gainesville
HORNICK, RICHARD B., M.D. (Johns Hopkins Univ.)
Clinical Professor/Orlando
MANSHEIM, BERNARD, M.D. (University of Wisconsin)
Clinical Assistant Professor/Gainesville
MAUCERI, ARTHUR A., M.D. (Georgetown University)
Clinical Assistant Professor/Gainesville
RODEFFER, HENRY D., M.D. (Vanderbilt Univ.)
Clinical Assistant Professor/Jacksonville
SIEGER, BARRY, M.D. (Boston Univ.)
Clinical Assistant Professor/Orlando
SUGARMAN, DANIEL I., M.D. (Univ. of Illinois)
Clinical Assistant Professor/Orlando

Rheumatology and Clinical Immunology

CALDWELL, JACQUES R., M.D. (Johns Hopkins)
Clinical Associate Professor/Gainesville
FRIEDLAENDER, SIDNEY, M.D. (Wayne State Univ.)
Clinical Professor/Gainesville
KOHEN, MICHAEL D., M.D. (University of Florida)
Clinical Assistant Professor/Daytona Beach
MASS, MYRON F., M.D. (University of Florida)
Clinical Associate Professor/Jacksonville
PRAVDA, JAY, M.D. (University of Puerto Rico)
Clinical Instructor/Gainesville
STROUD, ROBERT M., M.D. (Harvard)
Clinical Professor/Ormond Beach
THOBURN, ROBERT, M.D. (University of Florida)
Clinical Associate Professor/Gainesville

Oncology

CUSUMANO, CHARLES L., M.D. (Georgetown University)
Clinical Associate Professor/Gainesville
HARRIS, JAMES N., M.D. (Emory University)
Clinical Assistant Professor/West Palm Beach
KENTRO, TENNEY B., M.D. (George Washington Univ.)
Clinical Assistant Professor/Gainesville
McKEEN, ELISABETH A., M.D. (Albany, Medical College)
Clinical Assistant Professor/West Palm Beach
ROTHSCHILD, NEAL E., M.D. (New Jersey Medical Sch.)
Clinical Assistant Professor/West Palm Beach
STECHMILLER, BRUCE K., M.D. (Johns Hopkins)
Clinical Assistant Professor/Gainesville

Nephrology

FINLAYSON, GORDON C., M.D. (Univ. of Florida)
Clinical Assistant Professor/Gainesville
FULLER, THOMAS J., M.D. (Northwestern University)
Clinical Associate Professor/Ocala

Pulmonary

AUERBACH, DAVID, M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
GREENBERG, ROBERT A., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
HELLARD, DONALD W.
Assistant in Medicine/Gainesville
HERRAN, JUAN J., M.D., (Univ of Puerto Rico)
Clinical Assistant Professor/Orlando
JACKLER, IRA M., M.D. (University of Oklahoma)
Clinical Associate Professor/Jacksonville
McLEOD, IAN, M., B.S. (Ball State Univ.)
Assistant in Medicine/Gainesville
NEDER, GEORGE A., M.D. (Emory Univ.)
Clinical Assistant Professor/Orlando
SNYDER, ROBERT C., M.D. (Univ. of Pittsburgh)
Clinical Assistant Professor/Orlando
WYNNE, JAMES W., M.D. (Cornell Univ)
Clinical Associate Professor, Gainesville

NEUROLOGICAL SURGERY

BOGGS, J. SCOTT, M.D. (University of Michigan)
Clinical Assistant Professor/Jacksonville
CAUTHEN, JOSEPH C., III, M.D. (Duke University)
Clinical Associate Professor/Gainesville
FREEMAN, JAMES V., JR., M.D. (University of Tennessee)
Clinical Assistant Professor/Gainesville
GARCIA-BENGOCHEA, FRANCISCO, M.D. (Tulane)
Distinguished Service Professor Emeritus/Gainesville
GOMEZ, JAIME G., M.D. (National Univ. of Columbia)
Professor/Gainesville
HAID, REGIS W., M.D. (West Va. University)
Clinical Assistant Professor
HUDSON, CALVIN H., M.D. (University of Tennessee)
Clinical Associate Professor/Jacksonville
JACOB, RAYMOND P., M.D. (Univ. of Florida)
Clinical Assistant Professor
KAPLAN, BARRY J., M.D. (Univ. of Florida)
Clinical Assistant Professor/Ocala
LOHSE, DEAN C., M.D. (University of Minnesota)
Clinical Assistant Professor/Jacksonville

MAULDIN, RONALD L., M.D. (University of N.C.)
Clinical Assistant Professor/Gainesville
MOZINGO, JAMES P., M.D. (Univ. of Mississippi)
Clinical Associate Professor
REID, STEVEN A., M.D. (Univ, of Florida)
Clinical Assistant Professor of Neurosurgery
SCOTT, THOMAS E., M.D. (Univ. of Tennessee)
Clinical Professor/Daytona Beach
SPEIGELMANN, ROBERTO, M.D. (Univ.of Uruguay)
Clinical Assistant Professor
TWEED, CLYDE G., M.D. (Duke Univ.)
Clinical Associate Professor/Daytona Beach
WHANG, CHOONG JIN, M.D. (Seoul National Univ.)
Clinical Professor
ZENGEL, JANET B., Ph.D. (Univ. of Miami)
Associate Professor/Gainesville

NEUROLOGY

SHANKS, DANIEL E., M.D. (Univ. of Virginia)
Clinical Associate Professor/Nemours/Jacksonville
Turk, William R., M.D., (Case Western Reserve Univ.)
Clinical Assistant Professor/Nemours/Jacksonville

NEUROSCIENCE

KING, MICHAEL A. Ph.D., (Univ. of Florida)
Assistant Research Scientist
Warner, Joseph J., M.D. (Univ. of Florida)
Assistant Professor/Gainesville
ZENGEL, JANET E., Ph.D. (Univ. of Miami)
Associate Professor of Neuroscience and Neurological Surgery

OBSTETRICS AND GYNECOLOGY

BAIRD, TIM, M.D. (Univ. of Texas-Galveston)
Clinical Assistant Professor/Jacksonville
BANCROFT, JOE W., JR., M.D. (University of Miami)
Clinical Associate Professor/Jacksonville
BARNES, H. WADE, JR, M.D. (Medical College of Georgia)
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BEADLING, LESLIE W., M.D. (Temple University)
Clinical Associate Professor/Jacksonville
BYERS, JOHN W., M.D. (Univ. of North Carolina)
Clinical Assistant Professor/Jacksonville
CASTALDO, THOMAS, M.D. (Cornell Univ. Med. Center)
Clinical Associate Professor/Orlando
CHRISTIAN, SAMUEL, M.D. (Med. College of Georgia)
Clinical Assistant Professor/Jacksonville
FERGUSON, KAREN L., M.D. (Univ. of Missouri)
Clinical Assistant Professor/Melbourne
FERRELL, ROGER E., M.D. (Univ. of Florida)
Clinical Associate Professor/Jacksonville
FRIEDLINE, DAVID P., M.D. (Temple University)
Clinical Associate Professor/Jacksonville
GLENN, J. EUGENE, M.D. (Univ. of North Carolina)
Clinical Associate Professor/Jacksonville
GRANZIG, WILLIAM ARON, Ph.D. (Loyola University)
Clinical Professor/Jacksonville
HALL, DOUGLAS C., M.D. (Univ. of Florida)
Clinical Associate Professor/Ocala
HAYES, JAMES FRANKLIN, JR., M.D. (Univ. of Tenn.)
Clinical Associate Professor/Jacksonville
KIRBY, TAYLOR H., JR., M.D. (George Washington Univ.)
Clinical Associate Professor/Gainesville
MAYER, GEORGE L., M.D. (University of Arkansas)
Clinical Assistant Professor/Jacksonville
McCRANIE, PETER A., M.D. (Emory University)
Clinical Assistant Professor/Jacksonville
McNEILL, H. WYATT, M.D. (University of Miami)
Clinical Professor/Jacksonville
MILLER, HERMAN, JR., M.D. (University of Miami)
Clinical Instructor/Jacksonville
MOJADIDI, QUADRATULLAH, M.D. (Kabul University)
Clinical Professor/Jacksonville
MYERS, RICHARD L., M.D. (Medical College of Georgia)
Clinical Assistant Professor/Jacksonville
OBERDORFER, PAUL W., M.D. (Tulane University)
Clinical Associate Professor/Jacksonville
PACK, NORMAN W., M.D. (University of Kansas)
Clinical Assistant Professor/Jacksonville
PAULK, WILFORD, M.D. (Univ. of Florida)
Clinical Assistant Professor/Jacksonville
PHELAN, TIMOTHY M., M.D. (Georgetown University)
Clinical Assistant Professor/Jacksonville
PHILLIPS, CURTIS M., M.D. (Medical College of Georgia)
Clinical Professor/Jacksonville
PLATOCK, GERALD M., M.D. (Medical College of Georgia)
Clinical Associate Professor/Jacksonville
QUINLAN, RAYMOND W., M.D. (Hahnemann Med. Col.)
Clinical Associate Professor/Birmingham, Alabama
ROSIN, ALEXANDER P., M.D. (Tulane University)
Clinical Assistant Professor/Jacksonville
RUST, WILBUR C., M.D. (Albany Medical College)
Clinical Assistant Professor/Jacksonville
SAGER, NEIL, D.O. (Col. of Osteopathic Med. and Surg.)
Clinical Assistant Professor/Jacksonville
SCHOENFELD, ORENE, M.D. (University of Florida)
Clinical Associate Professor/Gainesville
SEKINE, KENNETH M., M.D. (Autonoma Univ., Mexico)
Clinical Assistant Professor/Jacksonville
SHAYKH, MARWAN M., M.D. (American Univ. of Beirut)
Clinical Assistant Professor/Jacksonville
SMITH, KARL, M.D. (Northwestern Univ. Medical School)
Clinical Associate Professor/Jacksonville

OPHTHALMOLOGY

ADAMS, CHARLES, JR., M.D. (Emory Univ.)
Clinical Assistant Professor/Jacksonville
ALLEN, VIVIAN J., M.D. (University of Florida)
Clinical Instructor/Jacksonville
BOLLING, JAMES P., M.D. (Univ. of Kentucky)
Clinical Instructor/Jacksonville
BOWDEN, FRANK, III, M.D. (Meharry Medical College)
Clinical Assistant Professor/Jacksonville
DONOVAN, JOHN P., M.D. (Albany Medical College)
Clinical Assistant Professor/Jacksonville
HERED, ROBERT W., M.D. (Univ. of Indiana)
Assistant Professor/Nemours/Jacksonville
LAMBROU, FRED H., M.D. (Emory University)
Clinical Assistant Professor/Jacksonville
LEVENSON, JEFFREY H., M.D. (University of Florida)
Clinical Instructor/Jacksonville
NICOLITZ, ERNST, M.D. (University of New Mexico)
Clinical Associate Professor/Jacksonville
POGREBNIAK, ALEXANDER E., M.D. (Univ. of Michigan)
Clinical Assistant Professor/Nemours/Jacksonville
ROSE, HOWARD N., M.D. (Chicago Medical School)
Clinical Professor/Jacksonville
STAMAN, JAMES A., M.D. (Temple University)
Clinical Assistant Professor/Jacksonville
WITKIN, NED, O.D. (New England College of Optometry)
Clinical Assistant In/Jacksonville

ORTHOPAEDICS

BITTAR, EDWARD S., M.D. (Temple Univ.)
Clinical Associate Professor/Palm Bay
BLOOMBERG, MARK S., M.D. (Purdue Univ.)
Affiliate Professor
BRADY, LOUIS P., M.D. (Emory Univ.)
Clinical Assistant Professor/Winter Park
CUMMINGS, ROBERT J., M.D. (Queens Univ.)
Clinical Assistant Professor/Nemours/Jacksonville
DEPAZ, OSCAR B., M.D. (Univ. of Puerto Rico)
Clinical Assistant Professor
FIPP, GEORGE J., M.D. (Indiana University)
Clinical Instructor/Jacksonville
FRY, RICHARD M., M.D. (Temple University)
Clinical Associate Professor
GILLESPY, THURMAN, JR., M.D. (Jefferson Med. Col.)
Clinical Instructor/Daytona Beach
GREIDER, JACK L., M.D., JR., (Med. College of Wisconsin)
Clinical Assistant Professor/Jacksonville
HAHN, GEORGE A., JR., M.D., (Temple Univ.)
Clinical Assistant Professor/Nemours/Jacksonville
HEINRICH, STEPHEN D., M.D., (Univ of Arizona)
Clinical Assistant Professor
HOCKER, JOHN, M.D. (University of Kansas)
Clinical Associate Professor/Jacksonville
HOGSHEAD, HOWARD P., M.D. (University of Iowa)
Clinical Associate Professor/Jacksonville
HUTTON, PATRICK M., M.D. (New York Med. College)
Clinical Instructor/Jacksonville
KANELL, DANIEL R., M.D. (Univ. of Pittsburgh)
Clinical Associate Professor
KLEINHANS, ROBERT J., M.D. (Univ. of Louisville)
Clinical Instructor/Jacksonville
LANCASTER, STEVEN J., M.D. (Med. Col. of Virginia)
Clinical Instructor/Jacksonville
LOTMAN, DAVID B., M.D. (Tulane Univ.)
Clinical Assistant Professor
LOVEJOY, JOHN F., JR., M.D. (University of Florida)
Clinical Instructor/Jacksonville
MARSH, BURTON W., M.D. (University of Florida)
Clinical Instructor/Ocala
MAZUR, JOHN M., M.D. (Univ of Pittsburgh)
Clinical Associate Professor/Nemours/Jacksonville
McCLUSKEY, WILLIAM P., M.D., (Univ. of Pennsylvania)
Clinical Assistant Professor/Nemours/Jacksonivlle
McLEOD, WILLIAM P., M.D. (Georgetown)
Clinical Assistant Professor
MYERS, SCOTT L., M.D. (Univ. of Iowa)
Clinical Assistant Professor
PATRICK, CHRIS (Eastern Kentucky Univ.)
Assistant in Orthopaedics
POWELL, RODGER, M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
SLATTERY, JAMES B., M.D. (University of Florida)
Clinical Instructor/Gainesville
TESSLER, RICHARD H., M.D. (Univ. of Miami)
Clinical Assistant Professor/New Smyrna Beach
TODD, ETHAN O., M.D. (Med. Col. of South Carolina)
Clinical Assistant Professor/Jacksonville
VAUGHEN, JUSTINE L., M.D. (Temple University)
Clinical Assistant Professor/Gainesville
WALLACE, PAUL F., M.D. (University of Chicago)
Clinical Assistant Professor/St. Petersburg
WHITAKER, DALE, M.D. (Univ. of South Florida)
Clinical Instructor/Jacksonville

OTOLARYNGOLOGY

BECKER, FERDINAND F., M.D. (Tulane School of Med.)
Clinical Assistant Professor
DUBBIN, CLIFFORD B., M.D. (University of Florida)
Clinical Assistant Professor/Orlando
FARRIOR, RICHARD T., M.D. (Duke University)
Clinical Professor/Tampa
FOOTE, PERRY A., JR., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
GARLINGTON, JAMES C., M.D. (Yale University)
Clinical Associate Professor

MARCUS, M. JEFFERY, M.D. (Univ. of Virginia)
Clinical Assistant Professor/Inverness
MERWIN, GERALD E., M.D. (University of Minnesota)
Clinical Professor
MOKRIS, MICHAEL S., M.D. (University of Cincinnati)
Clinical Assistant Professor/Orlando
REESE, BRADLEY R., M.D. (Temple University)
Clinical Assistant Professor
SELTZER, H., MICHAEL, JR., M.D. (Univ. of Florida)
Clinical Assistant Professor/Daytona Beach
SMITH, LARRY N., M.D. (University of Tennessee)
Clinical Assistant Professor
STUBBS, WILLIAM K., M.D. (Tulane Univ.)
Clinical Assistant Profesor
VONTZ, FREDERICK K., M.D. (Medical Academy-Dusseldorf)
Clinical Assistant Professor/Jacksonville
WERKHAVEN, JAY., M.D. (Bowman-Gray School of Medicine)
Clinical Assistant Professor/Nemours/Jacksonville

PATHOLOGY

BERNHARDT, HARVEY E., M.D. (Univ. of Louisville)
Clinical Associate Professor/Jacksonville
BYERS, GEORGE E., M.D. (Temple University)
Clinical Associate Professor/Gainesville
CHAN, MING SAN, Ph.D. (Polytechnic Inst. of Brooklyn)
Clinical Associate Professor/Jacksonville
CHARLTON, RONALD K., Ph.D. (Univ. of N.C.)
Clinical Associate Professor/Jacksonville
CUDDEBACK, JOHN K., M.D. (Indiana Univ.)
Assistant Professor/Gainesville
FLORO, BONIFACIO T., M.D.
(Univ. of East Roamon Magsaysay)
Clinical Assistant Professor/Jacksonville
GOLDSTEIN, JEFFREY D., M.D. (Emory University)
Clinical Associate Professor/Jacksonville
HAMILTON, WILLIAM F., M.D. (Univ. of Miami)
Clinical Associate Professor/Gainesville
HUMES, JAMES J., M.D. (Jefferson Medical Col.)
Clinical Professor/Jacksonville
KEITT, ALAN S. M.D. (Harvard Univ.)
Clinical Associate Professor
LIPKOVIC, PETER, M.D. (Univ. of Beograd, Yugoslavia)
Clinical Professor/Jacksonville
MULLEN, S. ALLEN, M.D. (University of South Florida)
Clinical Assistant Professor/Jacksonville
MULLEN, SANFORD A., M.D. (Columbia University)
Clinical Professor/Jacksonville
REDFERN, NANCY L., M.D. (Duke University)
Clinical Associate Professor/Jacksonville
RYDEN, SALLY E., M.D. (Univ. of Michigan)
Clinical Assistant Professor/Gainesville
SMITH, DENNIS M., JR., M.D. (Univ. of Tenn.)
Clinical Associate Professor/Jacksonville

PEDIATRICS

ALEXANDER, GREGOR, M.D. (Juveriana University)
Clinical Assistant Professor/Longwood
ANDERSON, TORSTEN, M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
ARMSTRONG, GEORGE F., M.D. (Duke University)
Clinical Associate Professor/Jacksonville
ARN, PAMELA H., M.D. (University of Virginia)
Clinical Assistant Professor/Jacksonville/Nemours
AXLEY, JOHN, M.D. (University of Maryland)
Clinical Assistant Professor/PEP/Pensacola
BAILET, LAURA LYONS, Ph.D. (Northwestern Univ.)
Clinical Assistant Professor/Jacksonville/Nemours
BAKER, ROY M., M.D. (Emory University)
Clinical Professor/Jacksonville
BANKS, JUDITH, M.D. (Univ. of Chicago)
Clinical Assistant Professor/Gainesville
BARRAZA, MARK A., M.D. (Univ. of Mississippi)
Clinical Assistant Professor of Pediatrics and Surgery
Jacksonville/Nemours
BARTLETT, JOHN, M.D. (University of Florida)
Clinical Assistant Professor/Fort Myers
BELL, WILLIAM R., M.D. (Duke University)
Clinical Professor/Director of
Pediatric Services/PEP/Pensacola
BENTON, CHARLES R., M.D. (Columbia University)
Clinical Assistant Professor/PEP/Pensacola
BENTON, THOMAS B., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
BERGER, PAUL S., M.D. (Univ. of Cominica)
Clinical Assistant Professor/Gainesville
BESSER, TIMOTHY P., M.D. (St. Louis Univ. Med. Sch.)
Clinical Assistant Professor of Pediatrics
and Anesthesiology/Jacksonville/Nemours
BLOOM, FREDERICK L., M.D. (Med. Col. of Wisconsin)
Clinical Assistant Professor/Sarasota
BOOTHBY, RICHARD J., M.D. (SUNY-Downstate)
Clinical Associate Professor/Jacksonville
BORGER, JAMES A., M.D. (University of Tennessee)
Clinical Associate Professor of Pediatrics and Surgery/
Jacksonville/Nemours
BRIGHT, GEORGE M., M.D. (University of Connecticut)
Clinical Associate Professor/Jacksonville/Nemours
BRILL, THOMAS M., M.D. (University of Michigan)
Clinical Professor/Gainesville
BULLARD, JOHN F., JR., M.D. (Univ. of Florida)
Clinical Assistant Professor/PEP/Pensacola
CARITHERS, HUGH A., M.D. (Emory University)
Clinical Professor/Jacksonville
CHEEK, JAMES W., M.D. (Univ. of North Carolina)
Clinical Assistant Professor/Jacksonville
CHEN, AVIS S., M.D. (Univ. of Florida)
Clinical Assistant Professor of Pediatrics and
Anesthesiology/Jacksonville/Nemours

CHIARO, JOSEPH, M.D. (University of Florida)
Clinical Assistant Professor/Orlando
CLEMENT, STEPHEN P., M.D. (Harvard Univ.)
Clinical Assistant Professor/Sarasota
CLUBBS, ROGER C., M.D. (University of Arkansas)
Clinical Assistant Professor/PEP/Pensacola
COHAN, ROBERT H., M.D. (Univ. of North Carolina)
Clinical Associate Professor/PEP/Pensacola
COLYER, ROBERT F., JR., M.D. (Emory University)
Clinical Assistant Professor/Jacksonville
COMMINS, STEPHEN, M.D. (SUNY-Buffalo)
Clinical Assistant Professor/Jacksonville/Nemours
CONDRON, COLIN J., M.D. (University of Dublin)
Clinical Professor and Dept. Chairman/Orlando
CRANE, JAMES D., M.D. (Duke University)
Clinical Assistant Professor/Jacksonville
CUMMINGS, ROBERT J., M.D. (Med. Col. of Georgia)
Clinical Assistant Professor of Pediatrics and
Orthopaedics/Jacksonville/Nemours
DAVID, CLIFFORD B., M.D. (Duke University)
Clinical Assistant Professor/Jacksonville/Nemours
DAVID, JOSEPH K., M.D. (Duke University)
Clinical Professor/Jacksonville
DAVID, RONALD F., M.D. (Wake Forest)
Clinical Assistant Professor/Gainesville
DEEB, LARRY, M.D. (Emory University)
Clinical Associate Professor/Tallahassee
DELL, GEORGE A., M.D. (St. Louis University)
Clinical Professor/Gainesville
DELLINGER, CHARLES T., M.D. (Univ. of Florida)
Clinical Assistant Professor/Jacksonville
DESROSIERS, PAUL M., M.D. (Univ. of North Carolina)
Clinical Associate Professor/Orlando
DOKLER, MARYANNE L., M.D. (Creighton Univ.)
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Surgery/Jacksonville/Nemours
DONOFRIO, ROBERT, M.S. (Troy State College)
Clinical Assistant In
ESCHENBURG, CHARLES, M.D. (University of Colorado)
ClinicalAssistant Professor/Delray Beach
EVANS, JONATHAN S., M.D. (Cornell University)
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FINDLAY, PRENTISS E., M.D. (Emory University)
Clinical Associate Professor/Jacksonville/Nemours
FRASER, DONALD J., M.D. (Hahnmann)
Clinical Associate Professor/Gainesville
GEORGE, DONALD E., M.D. (SUNY at Buffalo)
Clinical Associate Professor/Jacksonville/Nemours
GILLIS, HARRY G., M.D. (University of Florida)
Clinical Assistant Professor/Daytona Beach
GINTER, MYRNA B., M.D. (University of Havana)
Clinical Associate Professor/Jacksonville
GIUSTI, VINCENT F., M.D. (Univ. of Pennsylvania)
Clinical Assistant Professor/Orlando
GRANAT, LLOYD E., M.D. (SUNY-Downstate)
Clinical Assistant Professor/Jacksonville
GOODE, JANET C., M.A (Univ. of Florida)
Instructor
GOWDA, NARAYANA, M.D. (Bangalore Med. Col.)
Clinical Assistant Professor/Atlantis
GUEDES, BENJAMIN L., M.D. (University of Florida)
Clinical Assistant Professor/Orlando
GUTTERY, EDWIN III, M.D. (University of Louisville)
Clinical Assistant Professor/Fort Myers
GYLAND, STEPHEN P., M.D. (Vanderbilt University)
Clinical Assistant Professor/Jacksonville
HABIB, AMID, M.D. (Damascus University)
Clinical Instructor/Orlando
HADLEY, WILLIAM P., M.D. (Duke University)
Clinical Professor/Gainesville
HANSBERRY, WILLIAM E., M.D. (University of Miami)
Clinical Associate Professor/Jacksonville
HELFRICH, RICHARD A., M.D. (Univ. of Nevada)
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Anesthesiology/Jacksonville/Nemours
HELLRUNG, JOHN M., M.D. (Univ. of South Florida)
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HERED, ROBERT W., M.D. (Indiana Univ. Sch. of Med.)
Clinical Assistant Professor of Pediatrics and
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HORN, KENNETH A., M.D. (N.Y. Univ. School of Med.)
Clinical Associate Professor/Jacksonville
HSIANG, HELEN Y., M.D. (National Taiwan University)
Clinical Assistant Professor/Gulf Breeze
HUNSINGER, SUSAN Y., M.D. (University of Florida)
Clinical Assistant Professor/Gainesville
INGLE, ERON B., M.D. (Tulane Medical School)
Clinical Assistant Professor/Louisiana
JENKINS, THOMAS G., M.D. (University of Nebraska)
Clinical Assistant Professor/PEP/Pensacola
JONES, JIMMY E., M.D. (University of Tennessee)
Clinical Assistant Professor/PEP/Pensacola
JONGCO, ETHELINDA R., M.D. (Univ. of Philippines)
Clinical Assistant Professor/Kissimmee
JONGCO, GERMELINA R., M.D. (Univ. of Santo Tomas)
Clinical Assistant Professor/PEP/Pensacola
JOYCE, MICHAEL J., M.D. (St. Louis University)
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KELLY, WALTER C., M.D. (Temple University)
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KNICKERBOCKER, DONALD E., M.D., (Univ. of Michigan)
Clinical Assistant Professor
KOHLER, WILLIAM C., M.D. (University of Florida)
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KOHN, PETER, Ph.D. (Boston University)
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MAULDIN, OLIN B., JR., M.D. (Univ. of Mississippi)
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MAURAS, NELLY, M.D. (Univ. of Puerto Rico)
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McWILLIAMS, NEIL E., M.D. (University of Florida)
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MOORE, MARCUS M., M.D. (Duke University)
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MORGAN, WILLIAM C., M.D. (University of Florida)
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POTTER, NELL W., M.D. (University of Florida)
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POWERS, DAVID W., M.D. (Univ. of Florida)
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RAMOS, AGUSTIN, M.D. (University of Barcelona)
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RAPTOULIS, ARTHUR, M.D. (SUNY-Brooklyn)
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REDD, HENRY J., M.D. (Johns Hopkins)
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RIZKALLAH, MUNIR F., M.D. (University of Beirut)
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WALKER, JAMES W., M.D. (University of Tennessee)
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WESTMARK, EDWARD, M.D. (University of Florida)
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PSYCHIATRY

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MOSKOVITZ, RICHARD A., M.D. (Harvard)
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NEWMAN, E. GUSTAVE, M.D. (Duke University)
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REID, PARLANE J., M.D. (University of Connecticut)
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SAPP, EVELYN D., J.D. (University of Florida)
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SARKIS, ELIAS H., M.D. (Faculte de Medicine, France)
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SPRINGER, PHILIP K., M.D. (University of Mississippi)
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STRAUSS, CYD C., PhD (Univ. of Georgia)
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THOMPSON, JOHN W., JR., M.D. (Univ of Texas at Galveston)
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TINGLE, DAVID, M.D. (Univ. of Sheffield, England)
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TURKAT, IRA D., Ph.D. (University of Georgia)
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RADIOLOGY

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LACY, GEORGE D, M.D. (Univ. of South Alabama)
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Yancey, Judith M., M.D. (Univ. of Florida)
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SURGERY

Emergency Medicine

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BROWN, DUNCAN J., M.D. (St. George's University)
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DIETRICH, WILLIAM, M.D. (Boston University)
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DRESNICK, STEPHEN J., M.D. (University of Miami)
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EPSTEIN, FREDERICK B., M.D. (Med. Col. of Georgia)
Clinical Assistant Professor/Jacksonville
GYARMATHY, RAYMOND H., M.D. (Emory University)
Clinical Instructor/Jacksonville
KAMM, STEVEN, M.D. (Univ. of Illinois)
Clinical Instructor/Jacksonville
SCHAUBEN, JAY L., D.Phar. (St. Johns Univ. of Pharmacy)
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SCHILLINGER, DAVID S., M.D. (Hahnemann Univ.)
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General Surgery

BERARDUCCI, JAMES P., D.M.D. (Univ. of Pittsburgh)
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BROWN, J. BROOKS, M.D. (Tulane University)
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COFRIN, DAVID A., M.D. (Cornell University)
Clinical Professor/Gainesville
COLLINS, CLYDE M., M.D. (Medical Col. of Georgia)
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CORWIN, JAMES H. M.D. (Jefferson Medical College)
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GOVOSTIS, DEAN M., (Northwestern Univ)
Clinical Instructor
HAGAN, WAYNE V., M.D. (University of Miami)
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HUX, ROBERT H., M.D. (Medical Col. of Virginia)
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LARACH, SERGIO W., M.D. (University of Chile)
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LORE, CHARLES E., M.D. (University of North Carolina)
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MOSELEY, THAD M., M.D. (Vanderbilt)
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PEARCE, HERBERT R., M.D. (University of Mississippi)
Clinical Assistant Professor/Jacksonville
PETERS, THOMAS G., M.D. (Univ. of Cincinnati)
Clinical Professor/Jacksonville
PHILLIPS, CURTIS M., M.D. (Medical College of Georgia)
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PICKENS, N. EARLE, M.D. (University of Chicago)
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REINSTINE, HARRY W., JR., M.D. (Univ. of Virginia)
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SANTANA, ALBERTO, M.D. (Havana University)
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Oral Surgery/Jacksonville
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SOORIASH, DAVID, M.D. (Pahlavi Univ. Med. School)
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STEPHENSON, SAMUEL E., JR., M.D. (Vanderbilt)
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STUBBS, GEORGE M., M.D. (Emory University)
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WEBB, STEVEN, M.D. (University of Louisville)
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WHELCHEL, C., DAVIS, III, M.D. (Med. Col. of Georgia)
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Pediatric Surgery

BORGER, JAMES A., M.D. (Univ. of Tennessee)
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DOKLER, MARYANNE L., M.D. (Creighton Univ.)
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LAFER, DENNIS J., M.D. (Columbia Univ.)
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MADDEN, BRUCE R., M.D. (Tulane Univ.)
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MOAZAM, FARHAT, M.D. (Dow Med. Col., Pakistan)
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WEBB, HOWARD W., M.D. (Emory Univ.)
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Plastic and Reconstructive Surgery

ASOKAN, RANGASWAMY, M.D. (Madras Univ., India)
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BRILL, ROGER T., M.D. (University of Miami)
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BRYANT, W. MICHAEL, M.D. (Johns Hopkins Univ.)
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FURLOW, LEONARD T., JR., M.D. (Washington Univ.)
Clinical Professor/Gainesville
GRAHAM, BRAUN H., M.D. (Indiana Univ.)
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KAYE, BERNARD L., D.M.D., M.D. (Harvard Univ.)
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POSER, JOHN S., M.D. (Northwestern University)
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Thoracic and Cardiovascular Surgery

DAVIS, JAMES M., M.D. (Harvard University)
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GERTNER, HAROLD R., JR., M.D. (Univ. of Florida)
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NESMITH, MARSH A., JR., M.D. (Duke University)
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NUNN, DANIEL B., M.D. (Univ. of South Carolina)
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Urology

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KLIMBERG, IRA W., M.D. (Univ. of Miami)
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SIROIS, RONALD C., M.D. (University of Florida)
Clinical Assistant Professor
STRINGER, THOMAS F., M.D. (Wayne State University)
Clinical Assistant Professor/Inverness
STEVENS, PETER S., M.D. (Emory Univ.)
Associate Professor/Nemours/Jacksonville
TIMMONS, JOHN W., JR., M.D. (Ohio State University)
Clinical Assistant Professor/Gainesville
VAUGHAN, DAVID J., M.D. (Univ. of Cincinnati)
Clinical Assistant Professor
WEBSTER, ROBERT N., M D. (Washington University)
Clinical Professor/Tallahassee
YAVARI, MORTEZA G., M.D. (Pahloui University)
Clinical Assistant Professor/Jacksonville

PRECEPTORS

Community Health and Family Medicine

ANDRES, JOEL, M.D. (SUNY-Buffalo)
Department of Pediatrics, College of Medicine
BAKER, R. JOHNSON, M.D. (Temple University)
Gainesville, Florida
BANKS, CULLEN W, M.D. (Howard University)
Gainesville, Florida
BUCCIARELLI, RICHARD L., M.D. (Univ. of Michigan)
Pediatric Neonatology Division, College of Medicine
CASSISI, NICHOLAS J., M.D. (Univ. of Miami)
Department of Surgery, College of Medicine
CHODOSH, LANCE I., M.D. (Georgetown University)
Gainesville, Florida
CRUZ, AMELIA C., M.D. (Far Eastern Univ., Philippines)
Department of Obstetrics and Gynecology, College of Med.
DEBUSK, FRANKLIN, M.D. (Johns Hopkins)
Department of Pediatrics, College of Medicine
de la TORRE, JOSE, M.D. (University of Havana)
Student Health Services, University of Florida
EVANS, WILLIAM C., JR., M.D. (Duke University)
Gainesville, Florida
FLETCHER, CHARLES T., M.D. (University of Florida)
Gainesville, Florida
HEILMAN, KENNETH, M.D. (University of Virginia)
Department of Neurology, College of Medicine
JOHNSON, JAMES A., M.D. (Emory University)
Department of Radiology
Alachua General Hospital, Gainesville, Florida
KULDAU, JOHN, M.D. (Case Western Reserve Univ.)
Department of Psychiatry, College of Medicine
PANUSH, RICHARD S., M.D. (University of Michigan)
Department of Medicine, College of Medicine
RAFFA, JAMES, M.D. (Medical College of Virginia)
Gainesville, Florida
RAMADAN, A.M., M.D. (Alexandria Med. Sch., Egypt)
Gainesville, Florida
SESSIONS, W. HERMAN, M.D. (Med. Col. of Georgia)
Jacksonville, Florida
STEIN, GERALD H., M.D. (Univ. of Pennsylvania)
Professor of Medicine/VAMC
STREIFF, RICHARD, M.D. (Univ. of Basel, Switzerland)
Department of Medicine, College of Medicine
WARRICK, WILLIAM H., III, M.D. (Univ. of Penn.)
Gainesville, Florida

STUDENTS

MEDICAL STUDENTS

CLASS OF 1992

Name/Hometown/Residency

ABERNETHY, JOHN HOWARD/Gainesville, FL
UF/Alachua General Hospital, Gainesville, FL
ACOSTA, ALBIS/Miami, FL
Jackson Memorial Hospital, Miami, FL
ADKISON, SHANE ADAMS/Gulf Breeze, FL
UF/Alachua General Hospital, Gainesville, FL
ALDERMAN, MARY GODWIN/Gainesville, FL
Barnes Hospital, St. Louis, MO
BACHUS, ROBERT WILLIAM KIRKLAND/Gainesville, FL
Medical Univ. of South Carolina, Charleston, SC
BARINAGA, JORGE LUIS, JR./Miami, FL
Shands Hospital, Gainesville, FL
BARNES, SHARROL ELIZABETH/Panama City, FL
Tulane Univ. School of Med., New Orleans, LA
BARTON, PHILIP GREGORY/Bonifay, FL
Shands Hospital, Gainesville, FL
BAUR, CHRISTOPHER E./Gainesville, FL
Halifax Medical Center, Daytona Beach, FL
BERK, JAMES/Jacksonville, FL
Carolinas Medical Center, Charlotte, NC
BRINK, JEFFREY EINAR/Rochester, MI
U of Utah Affil. Hospitals, Salt Lake City, UT
BROWN, CHARLES K./Gainesville, FL
U of Arizona Affil. Hospitals, Tucson, AZ
BROWN, NANCY LYNN/Altamonte Springs, FL
USC School of Medicine, Los Angeles, CA
BYERLY, STEPHANIE INGUI/Tamatac, FL
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CALLAHAN, MILDRED PATRICE/Panama City, FL
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CARTER, CAROLYN GRACE/Pensacola, FL
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CHAN, JACKIE TSZKIT/Miami, FL
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CONNOR, CAROLINE LEE/Miami Beach, FL
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COX, CAROLINE FRANKLIN/Titusville, FL
Shands Hospital, Gainesville, FL
DANA, GARY CARL/Lake City, FL
Halifax Medical Center, Daytona Beach, FL
DAVIS, DAWN DAVIDSON/Palm Beach Gardens, FL
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DESENA, CURTIS WILLIAM/Winter Haven, FL
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EHRLICH, BETH ROBYN/N. Miami Beach, FL
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FISCHEL, ALAN JEFFREY/Plantation, FL
St. Francis Hospital, Evanston, IL
FISHER, CHERIE FRANCINE/Hollywood, FL
Danbury Hospital, Danbury, CT
FITZGERALD, EILEEN MARIE/St. Petersburg, FL
Wilford Hall, Lackland AFB, TX
FONG, ARNOLD DOUGLAS/Miami, FL
Tallahassee Regional Med. Ctr., Tallahassee, FL
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St. John's Mercy Medical Center, St. Louis, MO
FRY, ALLAND GORDON, III/Tampa, FL
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GARNICK, ILENE LENORE/Augusta, GA
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HAJJAR, JOSEPH DANIEL/Ft. Lauderdale, FL
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Tripler Army Med. Center, Honolulu, HA
LORBERBAUM, JEFFREY PHILIP/Lauderhill, FL
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LUBE, MATTHEW WILBUR/Stone Mountain, GA
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McGARRY, WILLIAM THOMAS/Jacksonville, FL
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MOORE, WENDIE KUHN/Lake City, FL
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MORENO, ANTHONY PETER/Miami, FL
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NACKMAN, LOUIS JAY/Jericho, NY
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OLSON, JOHN ACKERMAN/Sarasota, FL
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Shands Hospital, Gainesville, FL
PAULDING, KATRINA KEARNEY/Tampa, FL
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PEPINE, MARY LYNN/Gainesville, FL
U of Alabama Hospital, Birmingham, AL
PERRYMAN, DANA DYAN/Orlando, FL
U of Arizona Affil. Hospitals, Tucson, AZ
PETERSON, RICHARD KENNETH/Gainesville, FL
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PROVOST, NICOLE/Longwood, FL
UF/Alachua General Hospital, Gainesville, FL
RAO, VENKATARAMA KOPPAKA/Gainesville, FL
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RENUART, DANIEL ROBERT/Lighthouse Point, FL
UNC Hospitals, Chapel Hill, NC
RICHARDS, PAUL JEFFREY/New Orleans, LA
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SALOMON, JETH DeVEGA/St. Petersburg, FL
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SANTAMARIA, FRANK/Lake Worth, FL
St. Vincent's Med. Ctr., Jacksonville, FL
SARAVANOS, KAREN KOULA/Clearwater, FL
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SEFTON, WILLIAM DAVID/Winter Park, FL
U of Pittsburgh/Montefiore Hosp., Pittsburgh, PA
SEGUIN, DONALD JOSEPH/Palm Beach Gardens, FL
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SERRA, FERNANDO GREGORIO/Bushnell, FL
Ohio State University Hospitals, Columbus, OH
SIKER, DAVID ALLAN/Gainesville, FL
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SILVA, PERRY VINCENT/Los Banos, GA
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SLAYTON, WILLIAM BIRDSALL/Sanibel, FL
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SMART, JOHN K./Crestview, FL
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SMITH, CARLETTA/Jacksonville, FL
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SMITH, SOPHIA RENYA/Tampa, FL
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SUNTHARAM, NILA/Gainesville, FL
McGaw Med. Ctr./NW University, Chicago, IL
SWARTZ, DEBORAH ANN/Indialantic, FL
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THEOPHILOPOULOS, DEAN TRYFON/Tarpon Spgs, FL
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THOMPSON, JASON ROBERT/Jacksonville, FL
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THORPE, MICHAEL SCOTT/Seminole, FL
Mt. Sinai Medical Center, Miami, FL
TURMAN, WILLIAM CLAYTON/Lake City, FL
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URBINA, ANTONIO ENRIQUE/Jacksonville, FL
St. Vincent's Hospital, New York, NY
WALTZER, JOEL FRIEDMAN/Tampa, FL
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WAPLES, JOHN MICHAEL, JR./Jacksonville, FL
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ZINDELL, LAURA LEIGH/Ormond Beach, FL
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ABU-RUSTUM, REEM SAMEER/Coral Gables, FL
ACEVEDO, JORGE IGNACIO/Miami, FL
ALLISON, TIMOTHY BRUCE/Boca Raton, FL
ANSELMO, RANDALL SCOTT/Ft. Lauderdale, FL
ARANGO, JORGE LUIS/Palm Beach Gardens, FL
ATKINS PAPPAS, BETHANY DEAN/Jacksonville, FL
ATKINSON, TANGELA HENDERSON/Carol City, FL
ATWATER, ROBERT JACKSON/Tallahassee, FL
BACON, DONNA LOUISE/North Miami Beach, FL

BALCH, KYLE CHRISTIAN/Vero Beach, FL
BELTON, JANET MERRELL/Titusville, FL
BENNETT, BRENDA BERNADETTE/Mims, FL
BLACKINGTON, MARY REBECCA/Pensacola, FL
BLACKWOOD, ROBERT SEAN/Miami, FL
BRAGER, MICHAEL ANDREW/Miami, FL
BRAMBLETT, KAREN LYNN/Hollywood, FL
BROHAWN, WILLIAM ENSOR/Lake Park, FL
BROUILLETTE, JOHN ROBERT/Maitland, FL
BULLOCK, BRADLEY NEIL/Williston, FL
BURTON, JOHN JONES/Lilburn, GA
BUTLER, PETER N./West Palm Beach, FL
CAROLI, DEBRA LYNN/Prawlet, VT
CAVALIEROS, ROBERT DARIO/Gainesville, FL
CHALLA, PRATAP/Tallahassee, FL
CHAMBERS, DANELLE KAY/St. Petersburg, FL
CLASS, STEVEN JOHN/St. Petersburg, FL
CLIFFORD, PHILIP EARLE/St. Petersburg Beach, FL
CLIFFORD, SUSANN LEVY/Orlando, FL
CONNOR, ERIN ELIZABETH/Plantation, FL
COOPER, TIMOTHY JAMES P./Alton, IL
CORPUS, JAMES THOMAS/Rocky Ricer, OH
De La MOTTA, SHERYL CONSTANCE/Miami, FL
D'URSO, JOHANNA LISA/Palm Harbor, FL
EDWARDS, ANN/Sanford, FL
EISENSCHENK, STEPHAN/Winter Haven, FL
FARAH, LISA ANTOINETTE/Jacksonville, FL
GAVIN, SHARON LYNN/Palm City, FL
GOLDBERG, BRADLEY GORDON/Boca Raton, FL
GUSHWA, JILL PATRICE/Pembroke Pines, FL
HANSON, ERIC WILLIAM/West Palm Beach, FL
HECKER, DAVID JAY/Hollywood, FL
HEIDTMAN, EDWARD PERRY/Bartow, FL
HEIER, KEITH ALAN/Miami, FL
HELGEMO, DEWITT BENJAMIN/Ft. Myers, FL
HERBERT, ANDREA ELIZABETH/Vero Beach, FL
HILL, LAURA LUISE/Clearwater, FL
HSIEH, SAMUEL PEI/Gainesville, FL
JETTON, TIMOTHY D./Tallahassee, FL
KANOS, JASON NICK/Tarpon Springs, FL
KOBRIN, CRAIG ALLEN/Altamonte Springs, FL
KREPP, KIMBERLY KAY/Boca Raton, FL
LANDAU, STEVEN JAY/Potomac, MD
LANE, RICHARD GARY/Miami, FL
LARSON, JAMES LIONEL/Green Cove Springs, FL
LAURIE, SHAUN EMANUEL/Dothan, AL
LAUTH, MICHELLE ELIZABETH/St. Petersburg, FL
LAZ, JEANNINE, LOUISE/Naples, FL
LEHMAN, JOEL ANTHONY/Gainesville, FL
LIM, HAE SOO/Jacksonville, FL
LOOMIS, BARBARA ETHEL/San Francisco, CA
MADSEN, MELISSA A./Ft. Lauderdale, FL
MALLOY, ERIN MARIE/Tampa, FL
MARTIN, ALISIA SHARI/Tampa, FL
MAUN, ANGELI ROSE/Gainesville, FL
MAXEY, AMANDA GAY/Gotha, FL
MEITIN, CATHERINE ANN/Ormond Beach, FL
MEIXNER, KATHLEEN ELIZABETH/Springfield, NJ
MINER, DEAN SCOTT/Miami, FL
MONTESANI, MICHELLE RENEE/Lower Melbourne, FL
MORSE, STEVEN BENJAMIN/Oakland Park, FL
MOUTSIOS, SANDRA A./Lake Worth, FL
MULLIN, PAOLA ALVAREZ/Jacksonville, FL
MURPHY, DANIEL ERWIN/Tampa, FL
MURRAY, RICHARD DOUGLAS/Sunrise, FL
NAPOLITANO, MARGARET/Davie, FL
PATTERSON, MICHAEL JAMES/Ocala, FL
PETTY, MARK AARON/Gainesville, FL
QUINSEY, CHRISTOPHER KEVIN/Bridgeport, CT
RAND, EVELYN ERIN/Hollywood, FL
REED, ERIC H./Springfield, OH
REITER, SEAN BLAKE/Sunrise, FL
RINDERLE, KAREN SUE/DeLand, FL
ROBINSON, PATRICIA C./St. Petersburg, FL
ROGERS, ELIZABETH HAY/Jacksonville, FL
ROGERS, HOWARD/Gainesville, FL
ROSSI, CATHERINE M./St. Louis, MO
RUFFING, KYLE WILLIAM/Bellview, FL
SALZMAN, KAREN LISA/Sarasota, FL
SCHWALBE, MARCELLE SAYLOR/Tampa, FL
SCRIVENS, OLINDA RENEE/Tampa, FL
SEYMOUR, JONATHAN COURTNAY/Ocala, FL
SHAKER, ROBERT MICHAEL/Longwood, FL
SOLORZANO, CARMEN CECILIA/Managua, Nicaragua

STARLING, JEFFREY BERNARD/Tampa, FL
STEWART, MARIAN BARRAUD/Jay, FL
STIPANOV, MICHAEL ANTHONY/Belleair Beach, FL
SWANGER, LILLIAN WASHINGTON/Vero Beach, FL
TANG, YEONG SHIUH/Ocala, FL
TINANOFF, SHARON PHYLLIS/Tampa, FL
UTSEY, LISA ANN/Crystal River, FL
VEVERA, ELIZABETH CHARLENE/Maitland, FL
VIZZI, PETER DAVID/Tampa, FL
WALLACE, PAUL RODGER/Tallahassee, FL
WEINTRITT, DAVID CHARLES/Panama City, FL
WEISS, LEE EDWARD/Cooper City, FL
WEST, JEFFREY HOWARD/N. Palm Beach, FL
WHORTON, AMY LYNN/Kodiak, AK
WILHOIT, CHRISTOPHER ANDREW/Tallahassee, FL
WOLF, GEOFFREY BRUCE/Seffner, FL
ZEIGLER, TODD EUGENE/Merritt Island, FL

CLASS OF 1994

ABEL, KI LYNN/Aventura, FL
ANGELLA, GUY JOSEPH/Hollywood, FL
AYERS, JANE/Cape Coral, FL
BARTFIELD, MICHAEL CHARLES/Sunrise, FL
BARTRUFF, CHRISTOPHER/Sarasota, FL
BEADLING, BRENT LESLIE/Jacksonville, FL
BEAUCHAMP, RODNEY/Sneads, FL
BERGER, KYAN JAMES/Miami, FL
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BLUM, DAVID ARI/Boca Raton, FL
BUCHANAN, KEITH CARLTON/Tampa, FL
CAMPBELL, DAVID PAUL/Sarasota, FL
CAMPOSANO, ROBIN ANN/Marco Island, FL
CARANTZAS, ANTHONY C., Jacksonville, FL
CARTER, DANA ALIX/Orlando, FL
CHANDRASEKHARA, RAVI/Winter Haven, FL
CHATHAM, JAMES ROBERT/Altamonte Springs, FL
CHATHAM. TARA WILFONG/Longwood, FL
CLARK, AMY/Breckenridge, CO
CLARK, WILLIAM J./Northridge, CA
COBB, JON MARSHALL/Blountstown, FL

CODADA, SHIRLEY N./Miami, FL
CONKLING, CHRISTINE ELIZABETH/Miami, FL
COSENTINO, LYNN MARIE/Marietta, GA
COWAN, BENJAMIN ALAN/Beaufort, SC
CUNNINGHAM, KEITH WAYNE/Lake Alfred, FL
DIAMOND, DAVID A./Hollywood, FL
EBEOGLU, JEFFREY PAUL/Shalimar, FL
FINE, ANDREW DAVID/N. Miami Beach, FL
FIPP, KATHRYN ANN/Jacksonville, FL

FORDAN, JENNIFER ESTOY/Jacksonville, FL
FRANKLIN, JOHN LEONARD/Trenton, FL
FRIEDMAN, MELISSA/Boca Raton, FL
FULLER, DREW CUNNINGHAM/Atlantic Beach, FL
GANJIANPOUR, MEHRDAD/Clearwater, FL
GEDDIE, JEWELL BARBARA/Tallahassee, FL
GEHRIG, THOMAS RICHARD/Orlando, FL
GEORGE, RICHARD WILLIAM/Orlando, FL
GISH, ALLISON MARIE/Longwood, FL
GLANTZ, MELISSA GRACE/Tampa, FL
GLASSMAN, MICHAEL LOUIS/Hollywood, FL
HAFTEL, BRIAN/Sarasota, FL
HARTOG, MARGARET ANNE/Brandon, FL
HEROLD, DAVID MARC/Hollywood, FL
HILL, MICHAEL ANDRE/Miami, FL
HISKES, STEPHANIE/Denver, CO
HOLZMAN, GREGORY S./Augusta, GA
HOOPER, LISA DIANE/Sand Springs, OK
HUFFMAN, KIMBERLY ANN/Tampa, FL
JAECKEL, KERRI/Gainesville, FL
JAIN, MERRA/Naples, FL
JOHNSON, KRISTINA HOPE/Largo, FL
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KAMATH, SACHIN SHRINIVAS/Sarasota, FL
KELLY-JONES, ALYSE MARGARET/Melbourne, FL
KULDAU, JOHN GUSTAV/Gainesville, FL
LAWSON, DANIEL L./Gainesville, FL
LE, MARY T./Columbia, SC
LEE, MIKYUNG/Tampa, FL
LEE, RONALD VINCENT/Miami, FL
LEVINE, DONALD JACOCKS/Miami, FL
LIN, CHINJUN KIMIKO/Miami, FL
MANN, SUZANNE THI/Kissimmee, FL
MASON, LOWELL DEAN, II/Crestview, FL
McARTHUR, HOLLY KRISTIN/Sarasota, FL
McMILLAN, DAMON COOPER/Chatahoochee, FL
MELLOTT, JANE KENIE/Gainesville, FL
MONROE, MICHAEL HANSON/Jacksonville, FL
MORA, CARL SHAYNE/Bradenton, FL
MORALES, PATRICIA MARIE/Ft. Lauderdale, FL
MORSCH, JAMES KYLE/Orlando, FL
MUCCIOLO, PAUL/Ormond Beach, FL
MURPHY, BETTINA ANN/Stuart, FL
MUSY, PIERRE YVES/Overland Park, KS
MYRICK, SAMUEL EDWARD/Zephyrhills, FL
NIEDZWIECKI, MARY LOURDES/Niceville, FL
NOACK, STEPHANIE PETRINA/Ft. Myers
PADRON, ALBERTO FRANCISCO/Clewiston, FL
PEPINE, ANNE/Gainesville, FL
PEREZ, MARK DAVID/Tampa, FL
PHILLIPS, ROBERT LeROY, JR./Dixon, MO
PHILLPOTT, JUSTIN WESLEY/Lynn Haven, FL
PIKE, SAMANTHA NADINE/Okeechobee, FL
PRENDERGAST, BETHANY M./Jacksonville, FL
PULCINI, PAUL MICHAEL/Coral Springs, FL
QUISLING, SCOTT GUNNAR/Gainesville, FL
RAHMANI, FARAHNAZ/Palm Springs, FL
REODICA, HANS THOMAS/Niceville, FL
ROSENBERG, JASON J./Miami Beach, FL
SCHULTZ, CAROLYN/Tallahassee, FL
SCORNIK, HUGO ALEJANDRO/Gainesville, FL
SEVIGNY, GINA MOLLIS/Marco Island, FL
SEVIGNY, STEPHEN/Sarasota, FL
SHAH, BIJAL DINESH/Gainesville, FL
SHANLEY, SONJA MONA/Boynton Beach, FL
SHROFF, SANJEEV KRISH/Winter Haven, FL
SHUTE, GERALD CHARLES/Hollywood, FL
SIMMONS, DWELVIN LEANIER/Tallahassee, FL
SKOP, NEAL FRANKLIN/N. Ft. Lauderdale, FL
SKORUPA, SCOTT EDWARD/Tarpon Springs, FL
SMERAGE, JEFFREY BEAUMONT/Gainesville, FL
SMITH, JEFFREY RICHARD/Ocala, FL
SMITH, SCOTT LEANDER/Inverness, FL
SULLIVAN, BRETT STEVEN/Goldsbora, PA
SUSI, BETH ELISA/Davie, FL
TROWBRIDGE, THOMSTOM S./Ponte Verdi Beach, FL
VanBLARICOM, AMY LEE/Ft. Pierce, FL
VanTO, TRACY THU/St. Petersburg, FL
VENTICINQUE, STEVEN GREGORY/Toms River, NJ
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The University Record
University of Florida
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